Amendments to the Drawings:

The attached sheets of drawings include changes to Figures 1-42. These drawings replace the original sheets.

Attachments

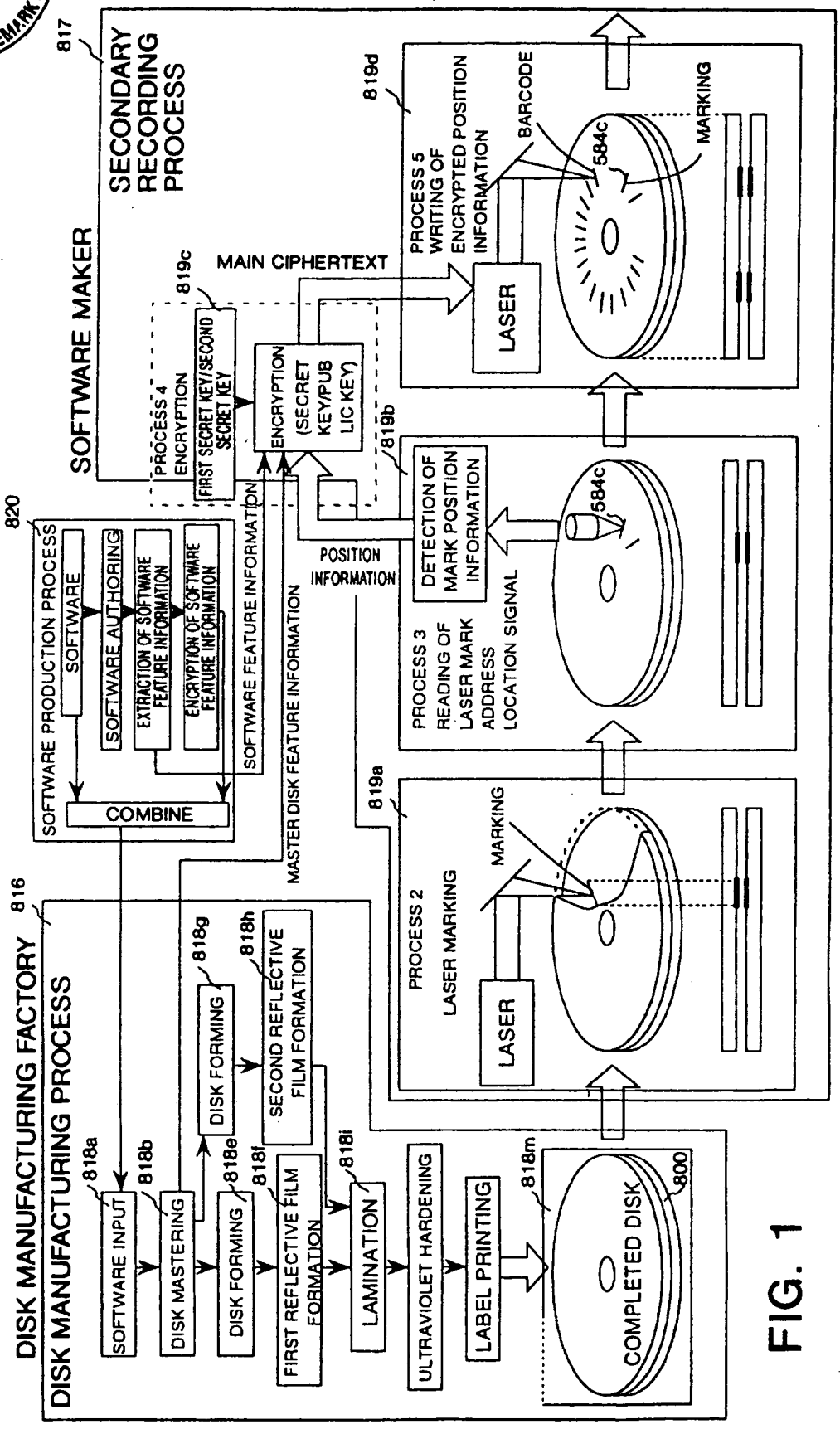


FIG. 1

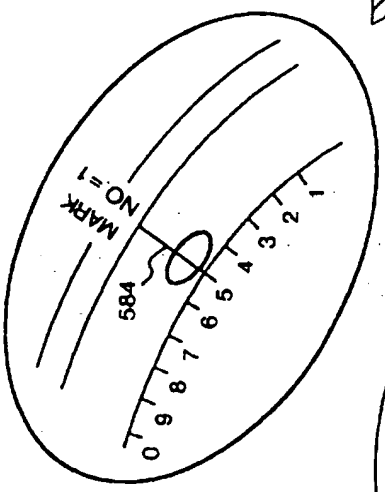


FIG. 2B

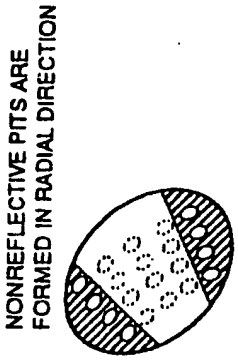


FIG. 2C

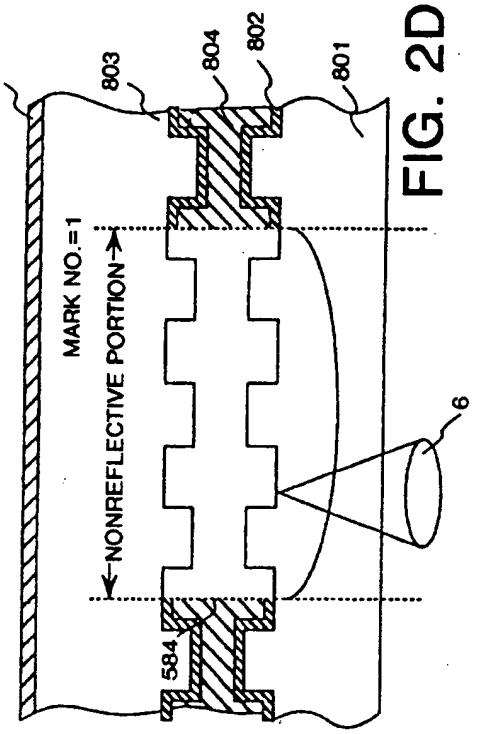


FIG. 2D

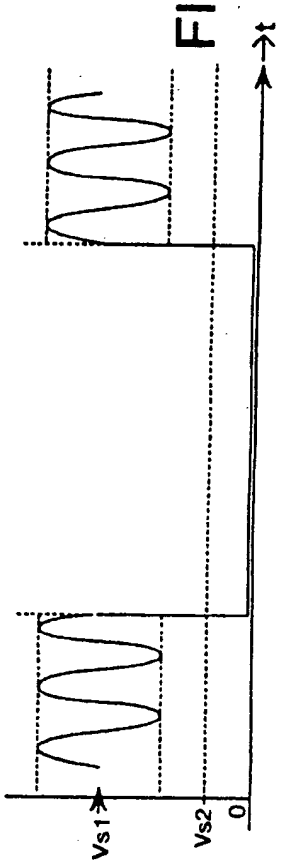


FIG. 2E

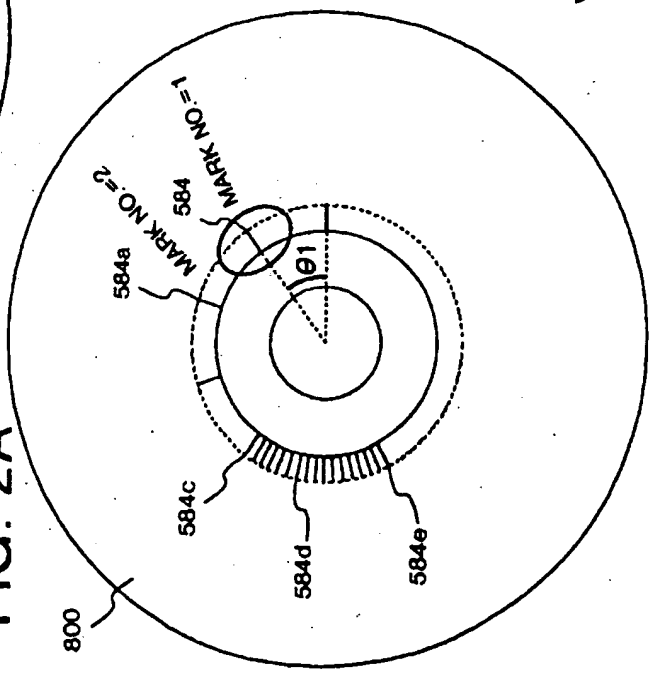


FIG. 2A

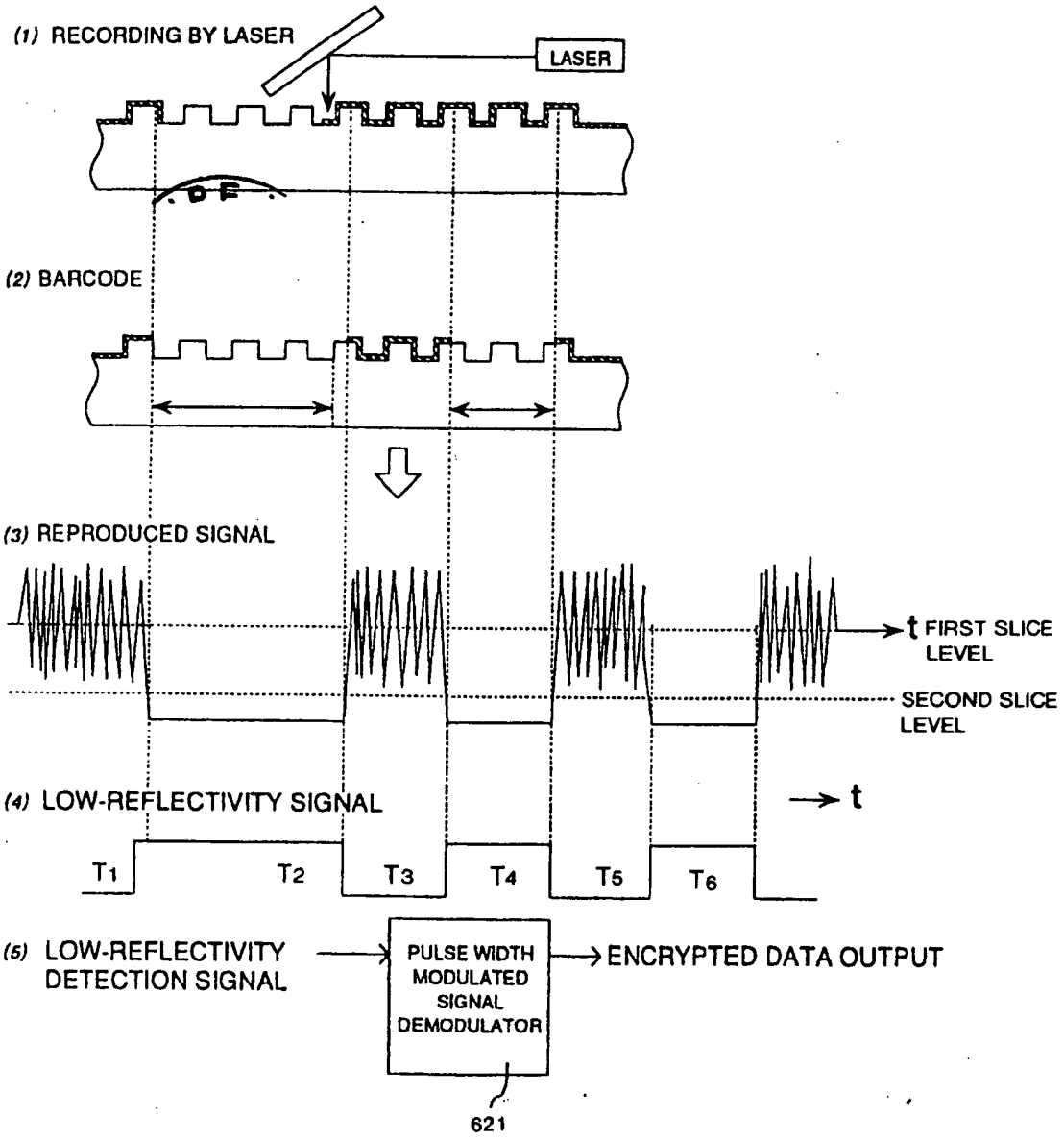


FIG. 3

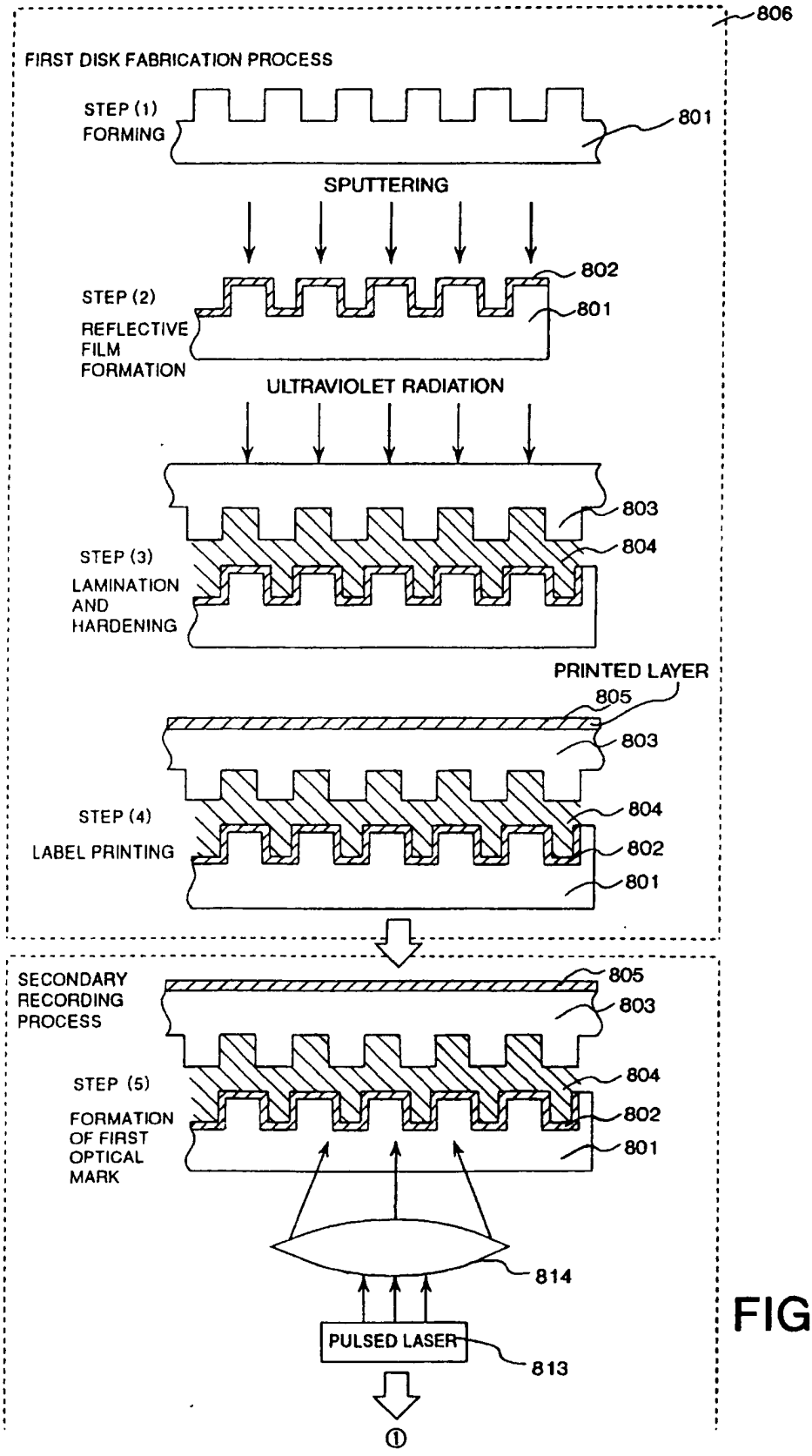
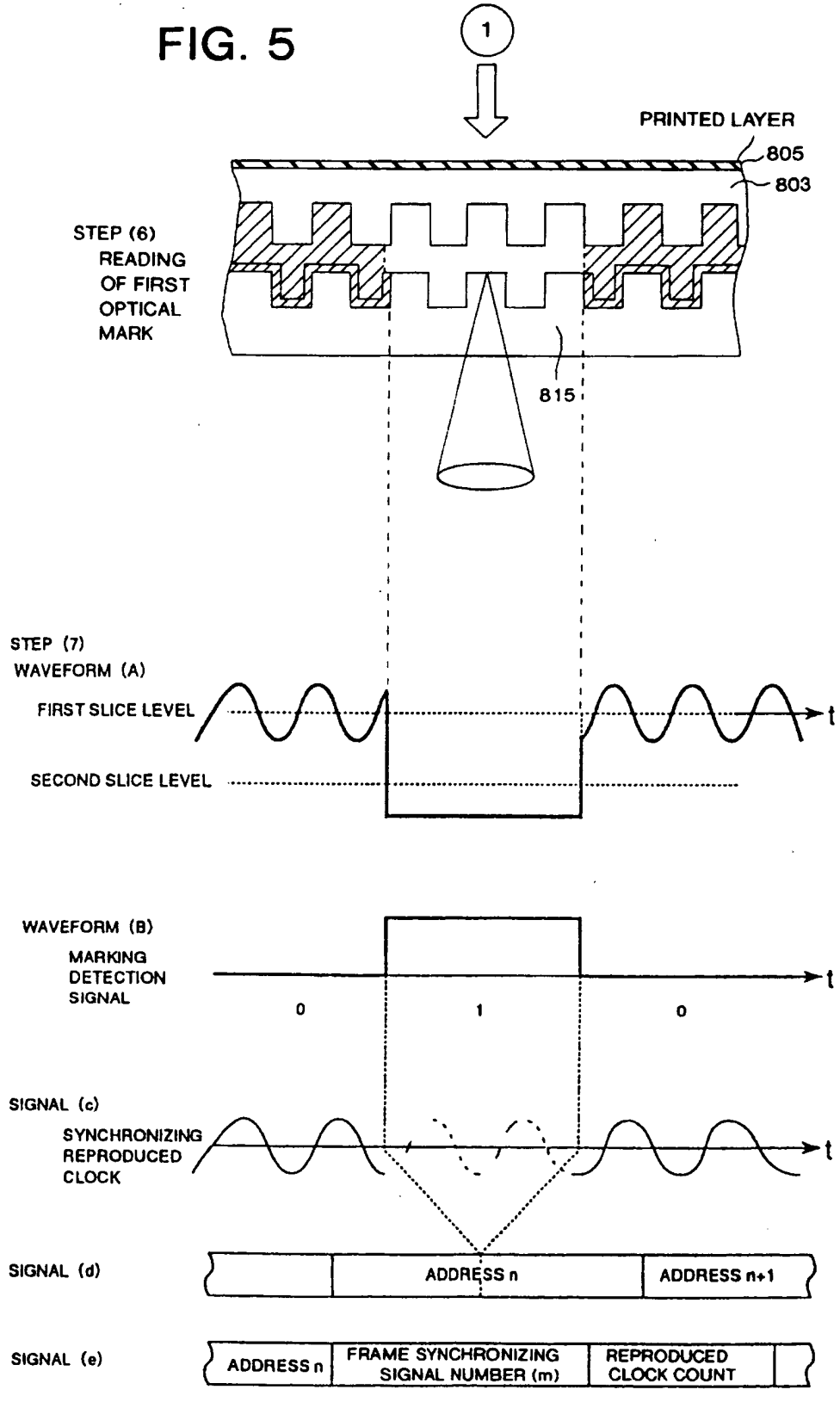


FIG. 4

FIG. 5



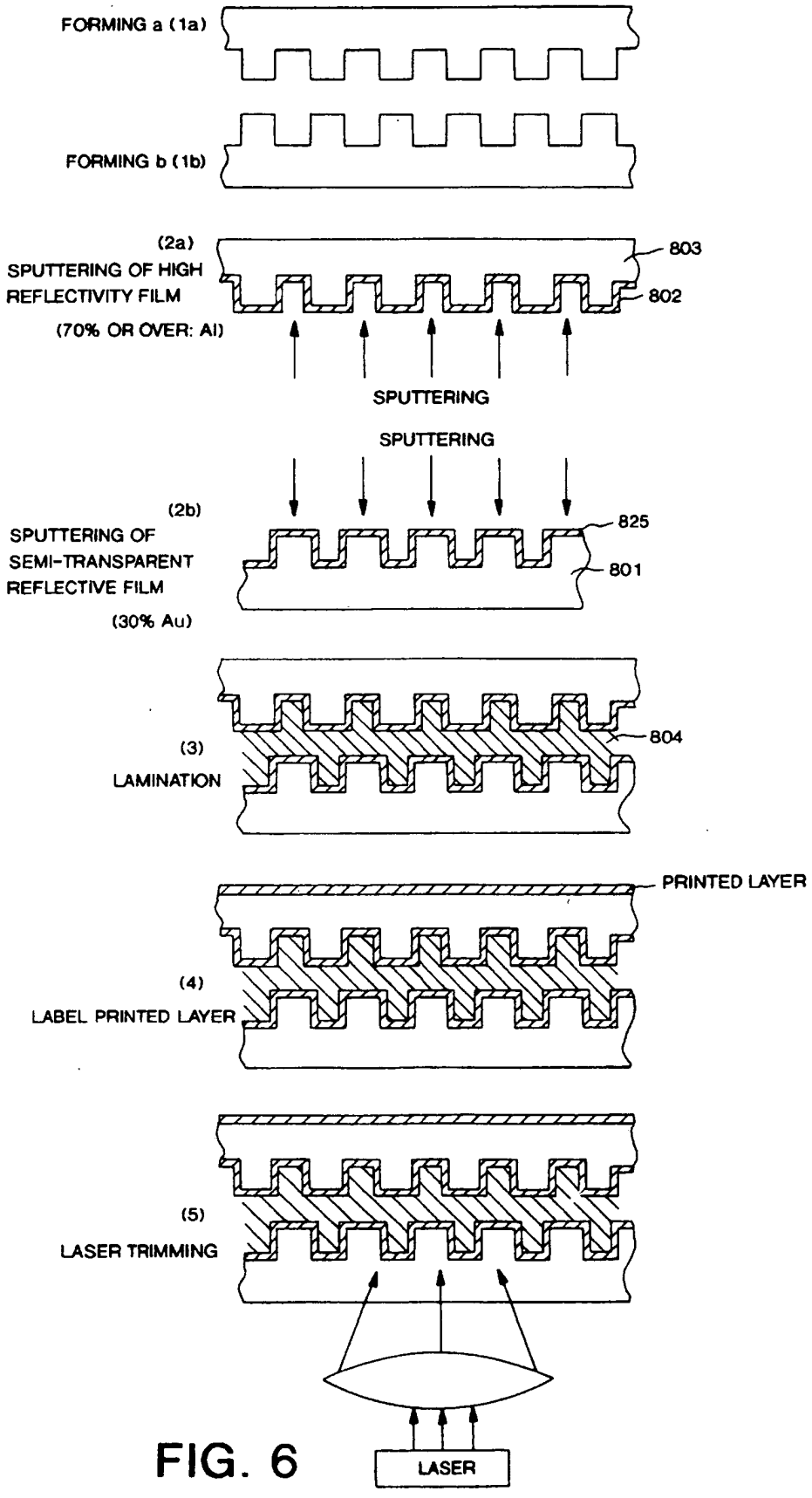


FIG. 6

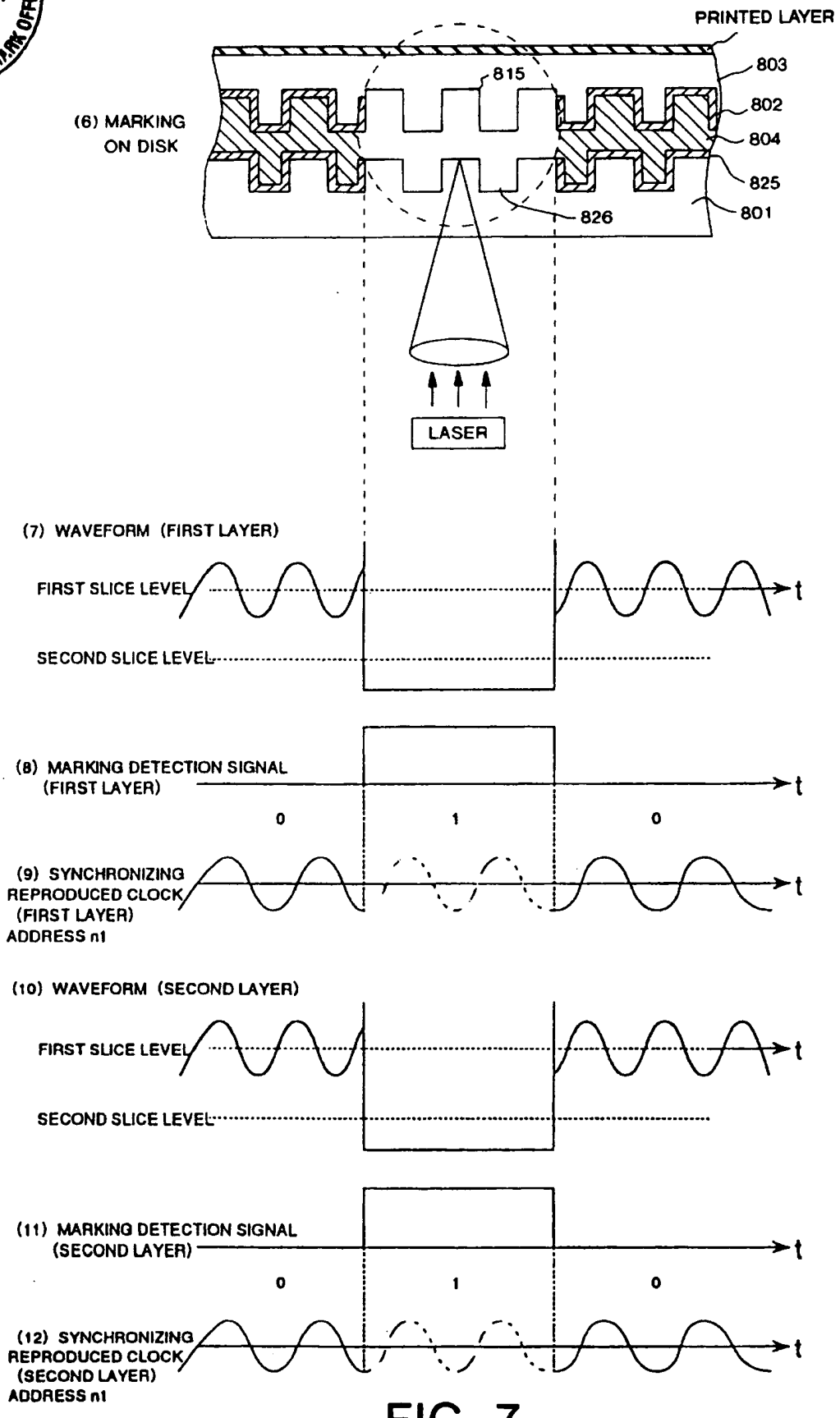


FIG. 7

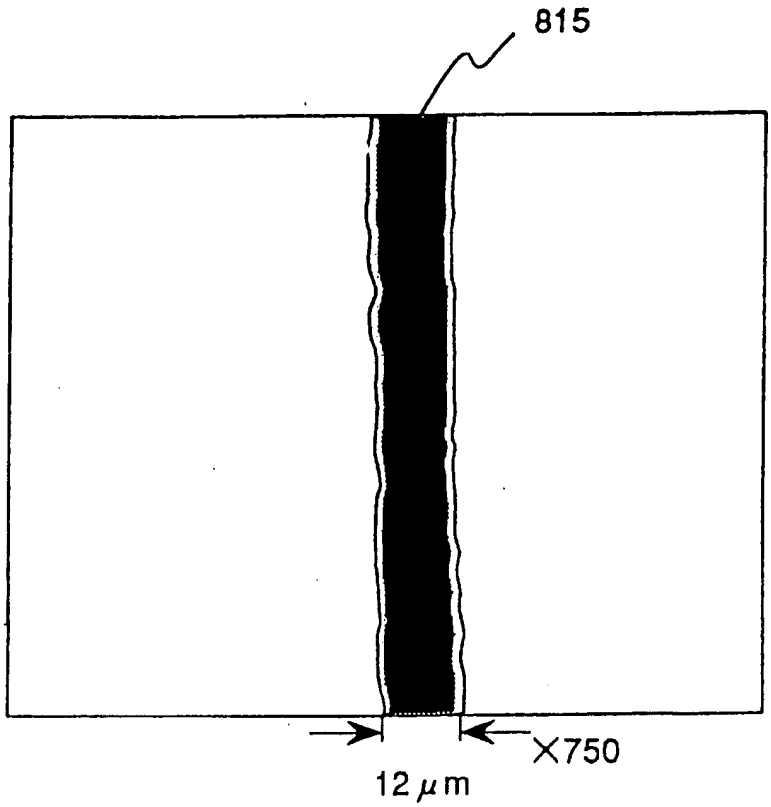


FIG. 8A

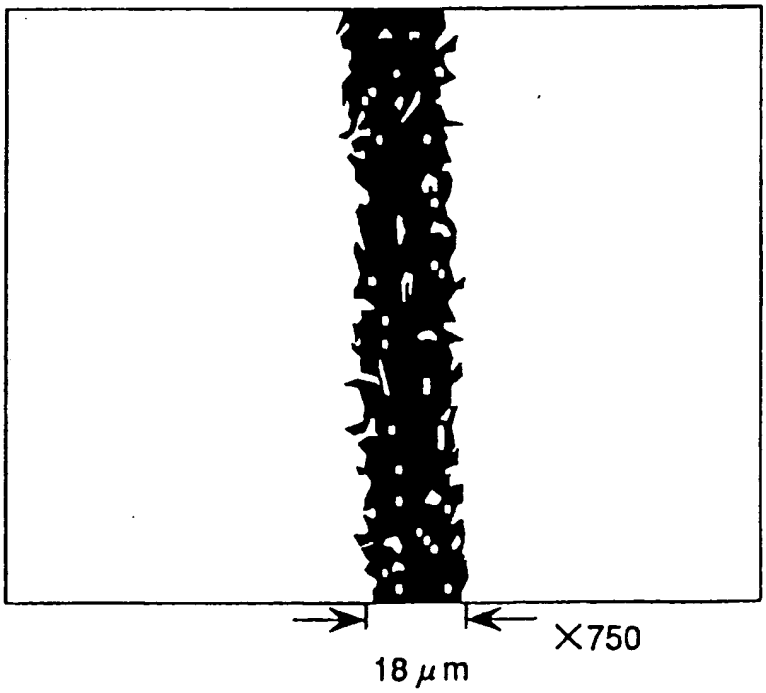


FIG. 8B

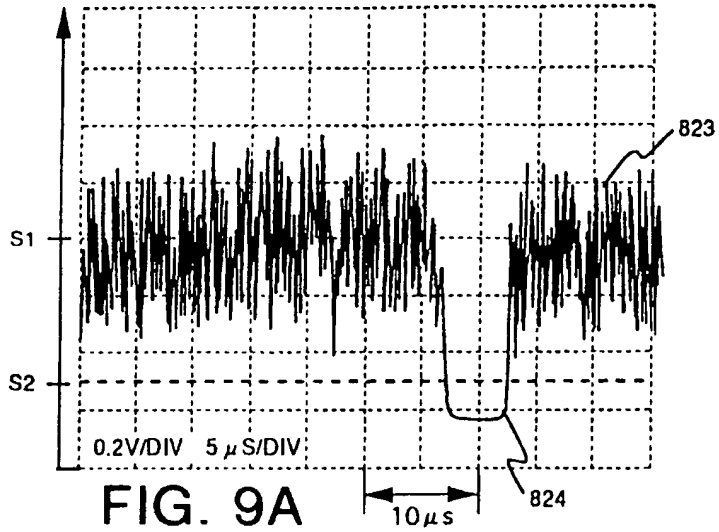


FIG. 9A

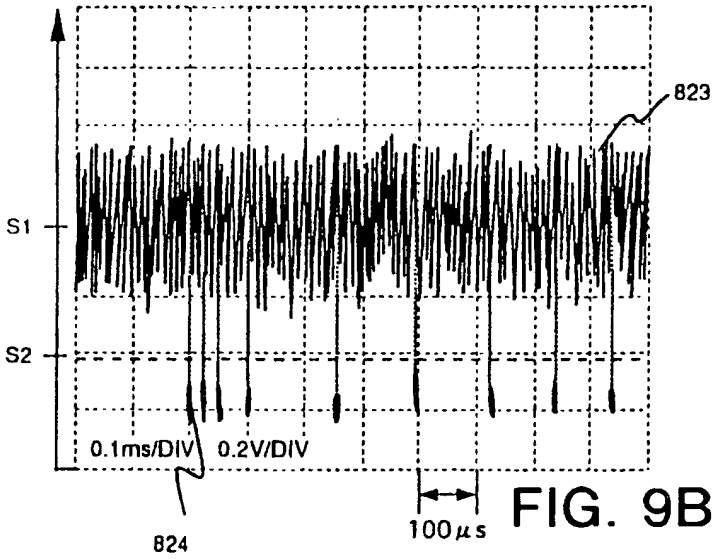


FIG. 9B

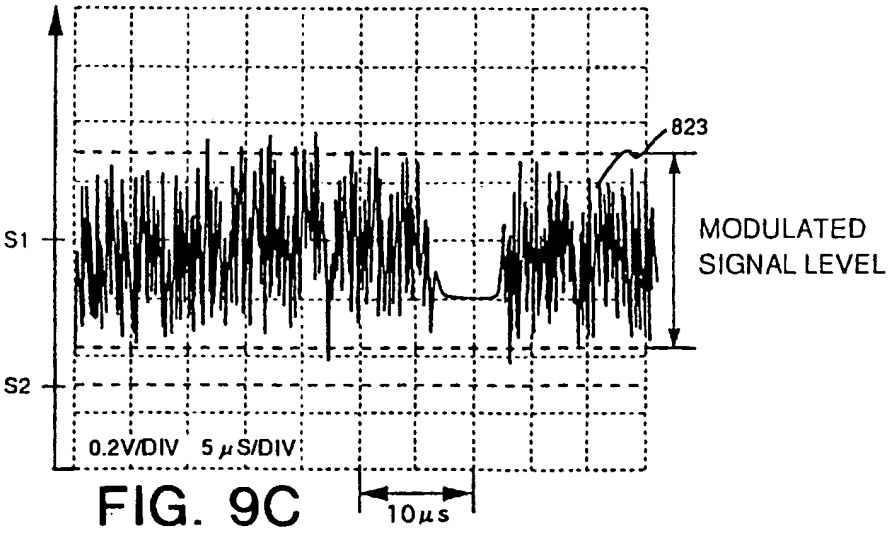


FIG. 9C

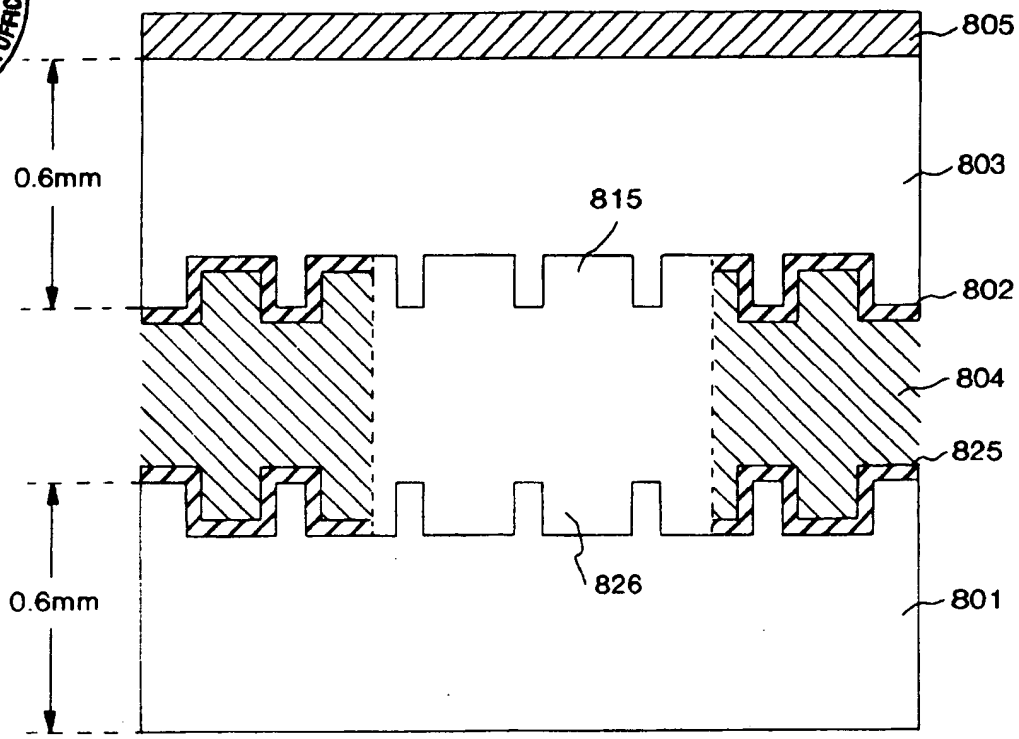


FIG. 10A

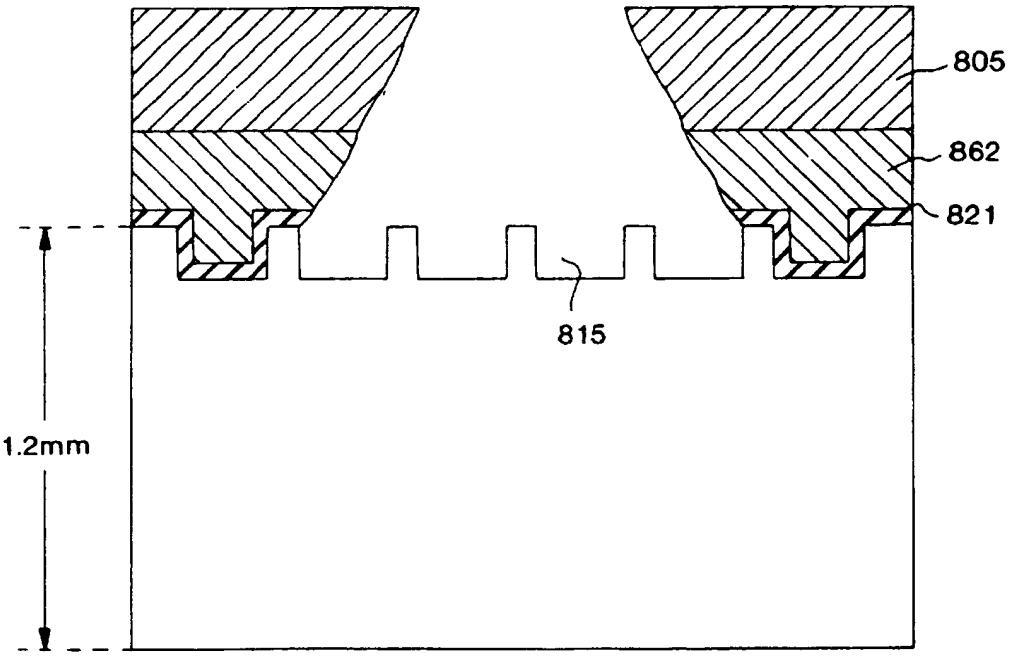
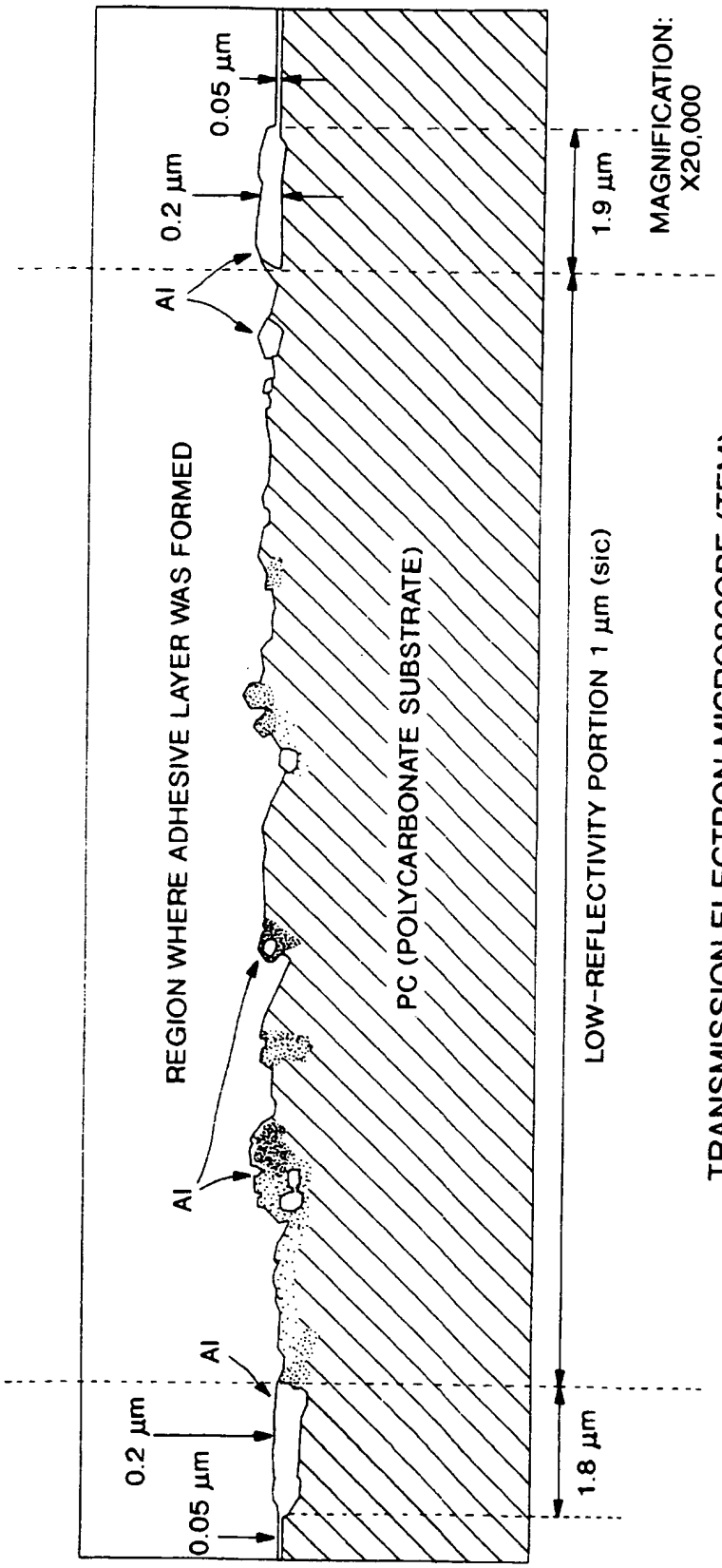


FIG. 10B



TRANSMISSION ELECTRON MICROSCOPE (TEM)

FIG. 11

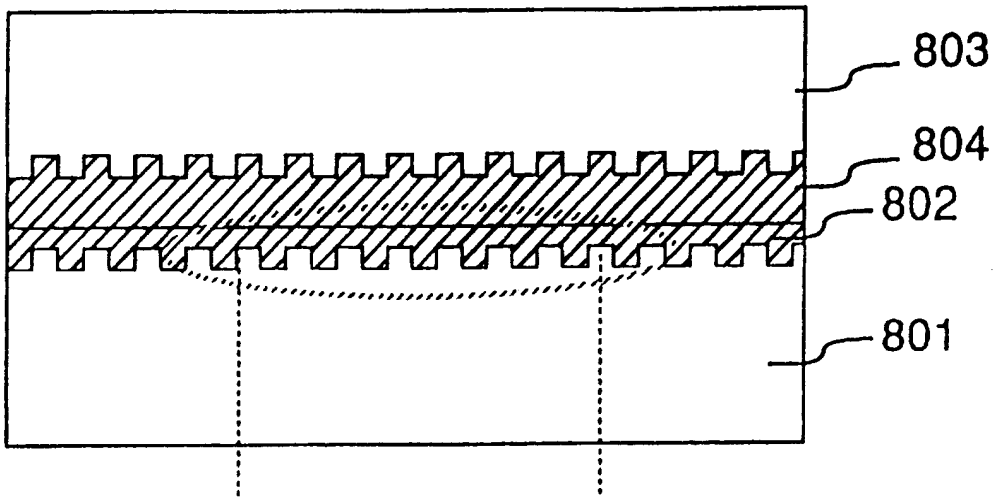


FIG. 12A

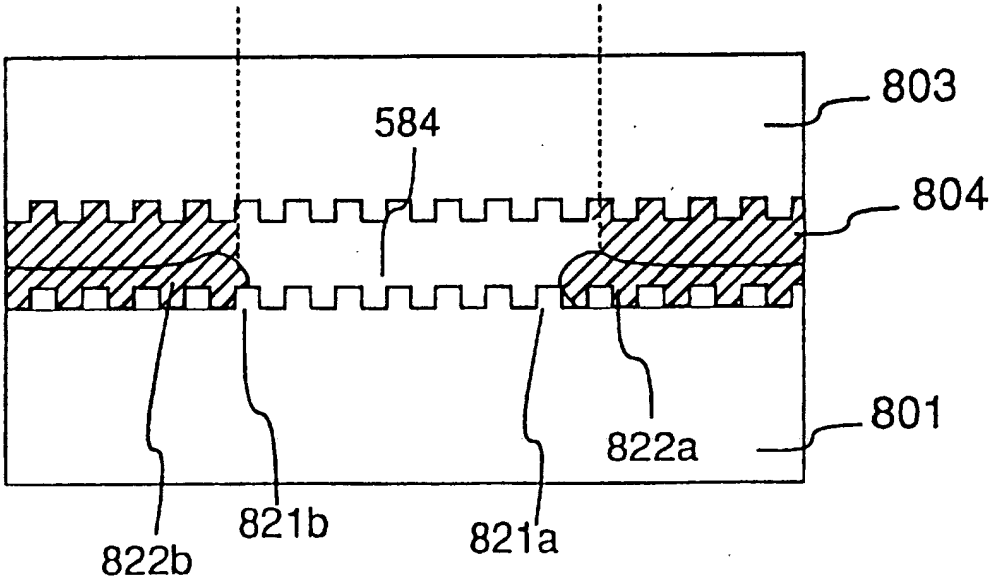


FIG. 12B

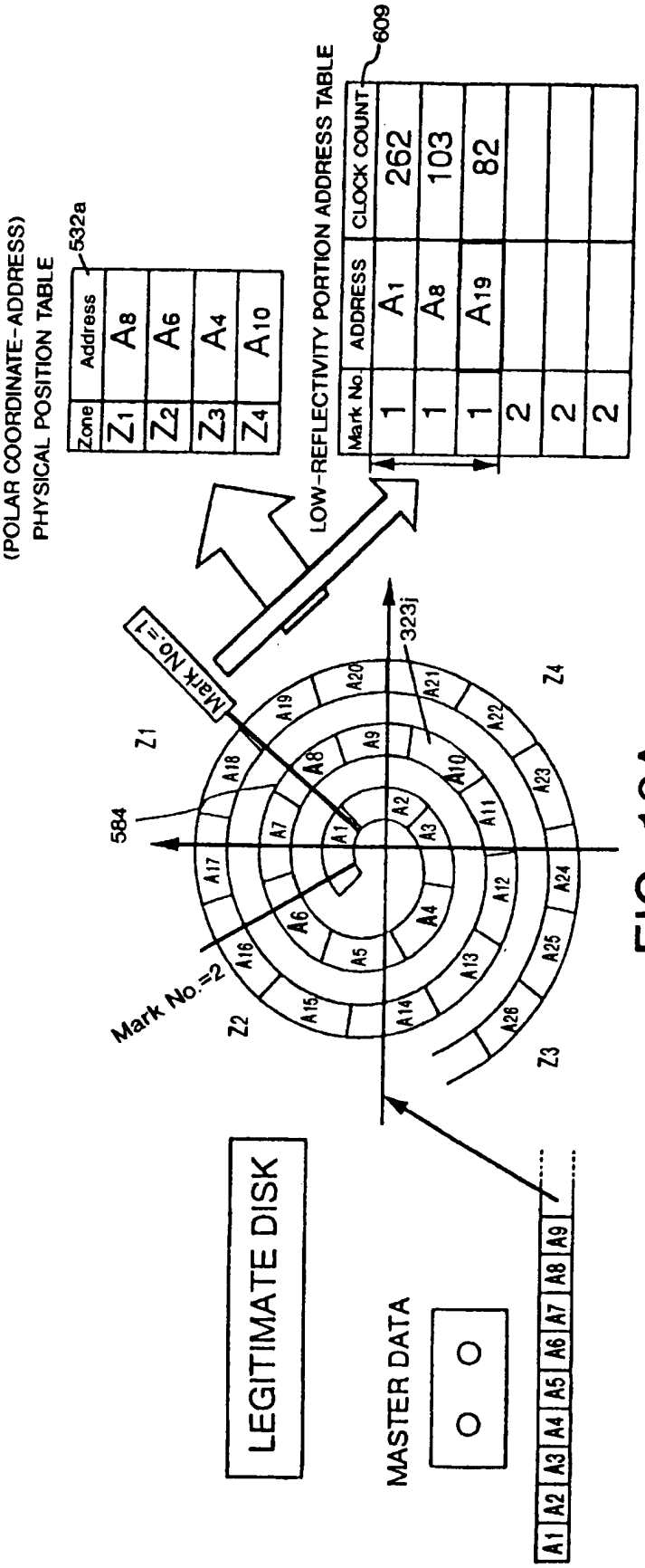


FIG. 13A

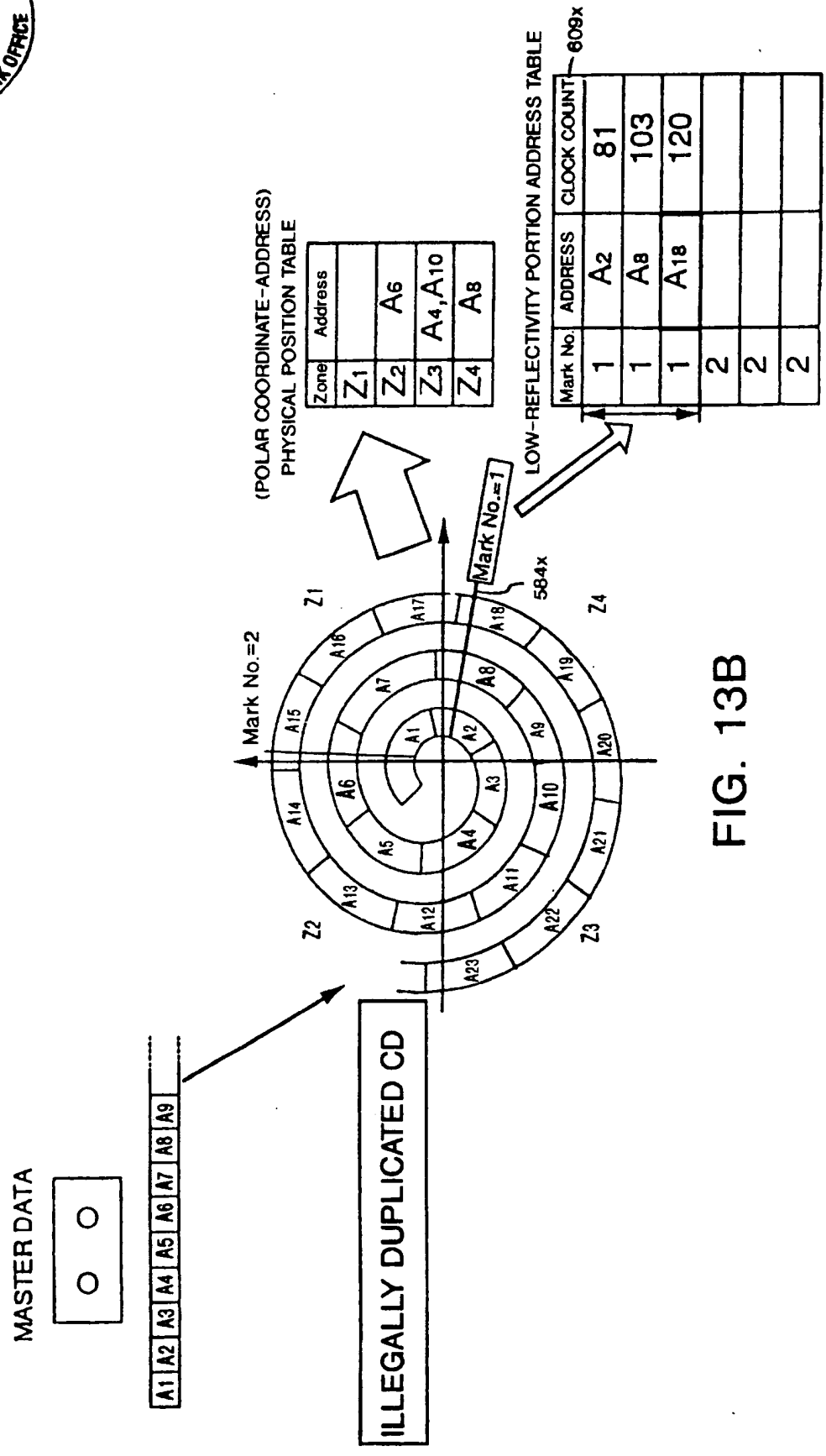


FIG. 13B

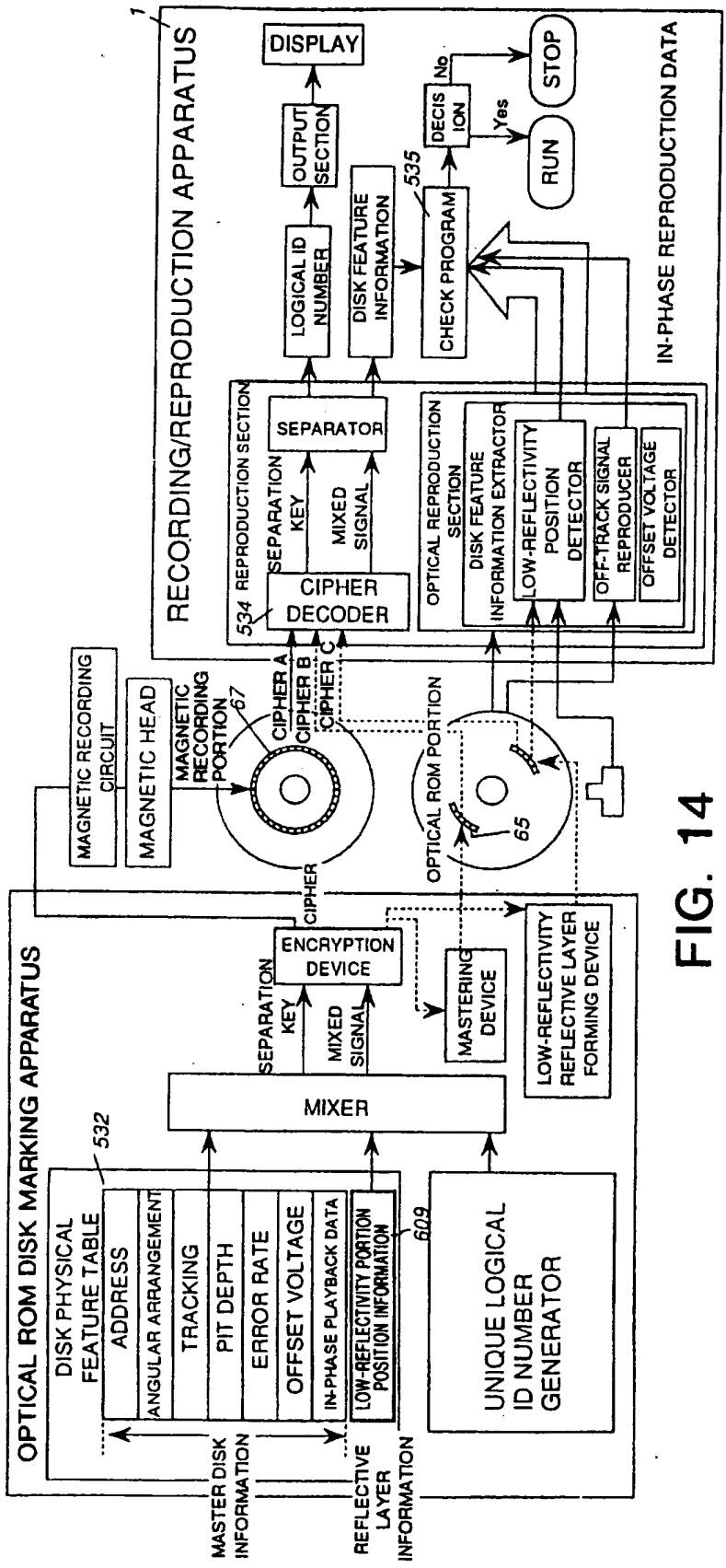


FIG. 14

FIG. 15

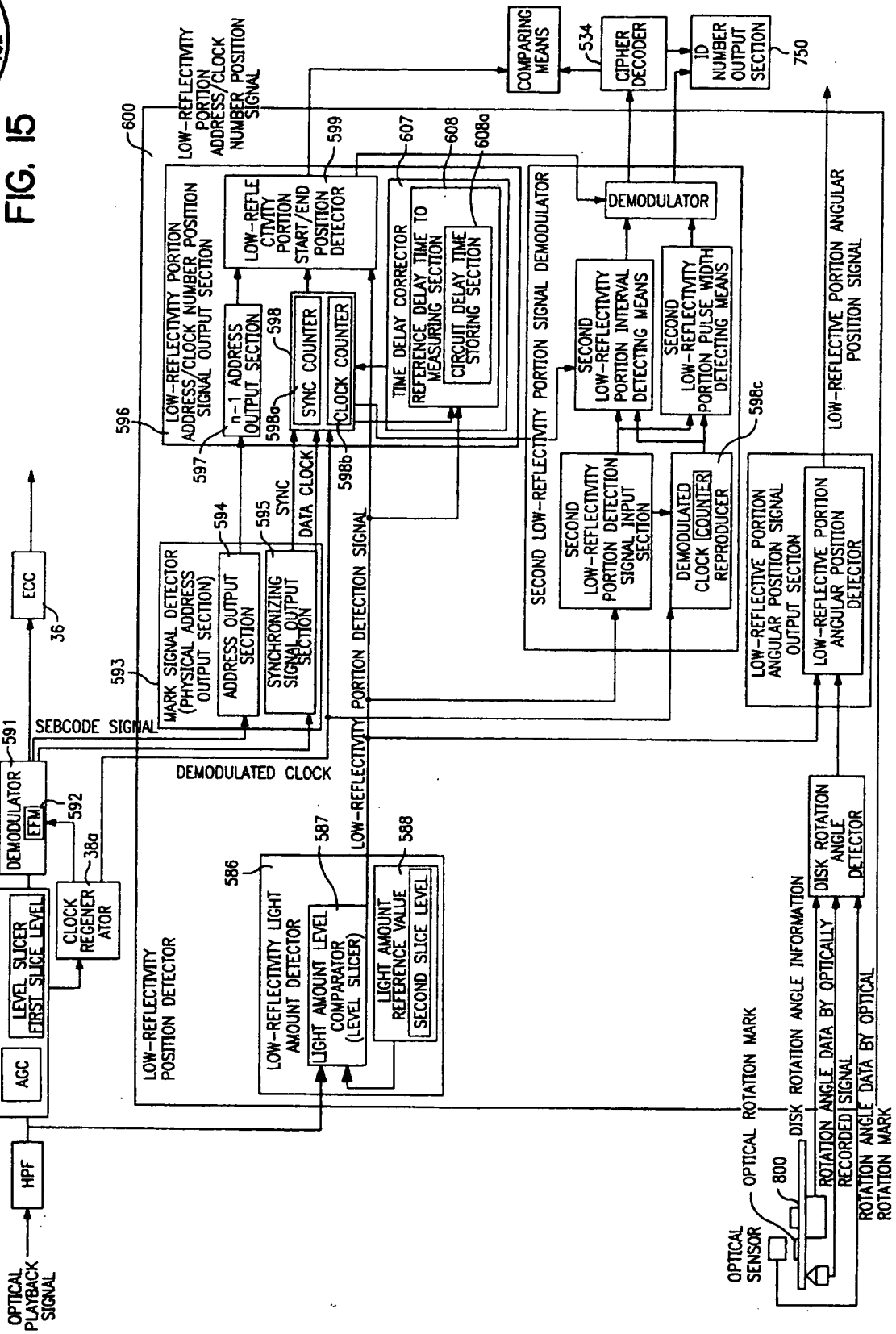
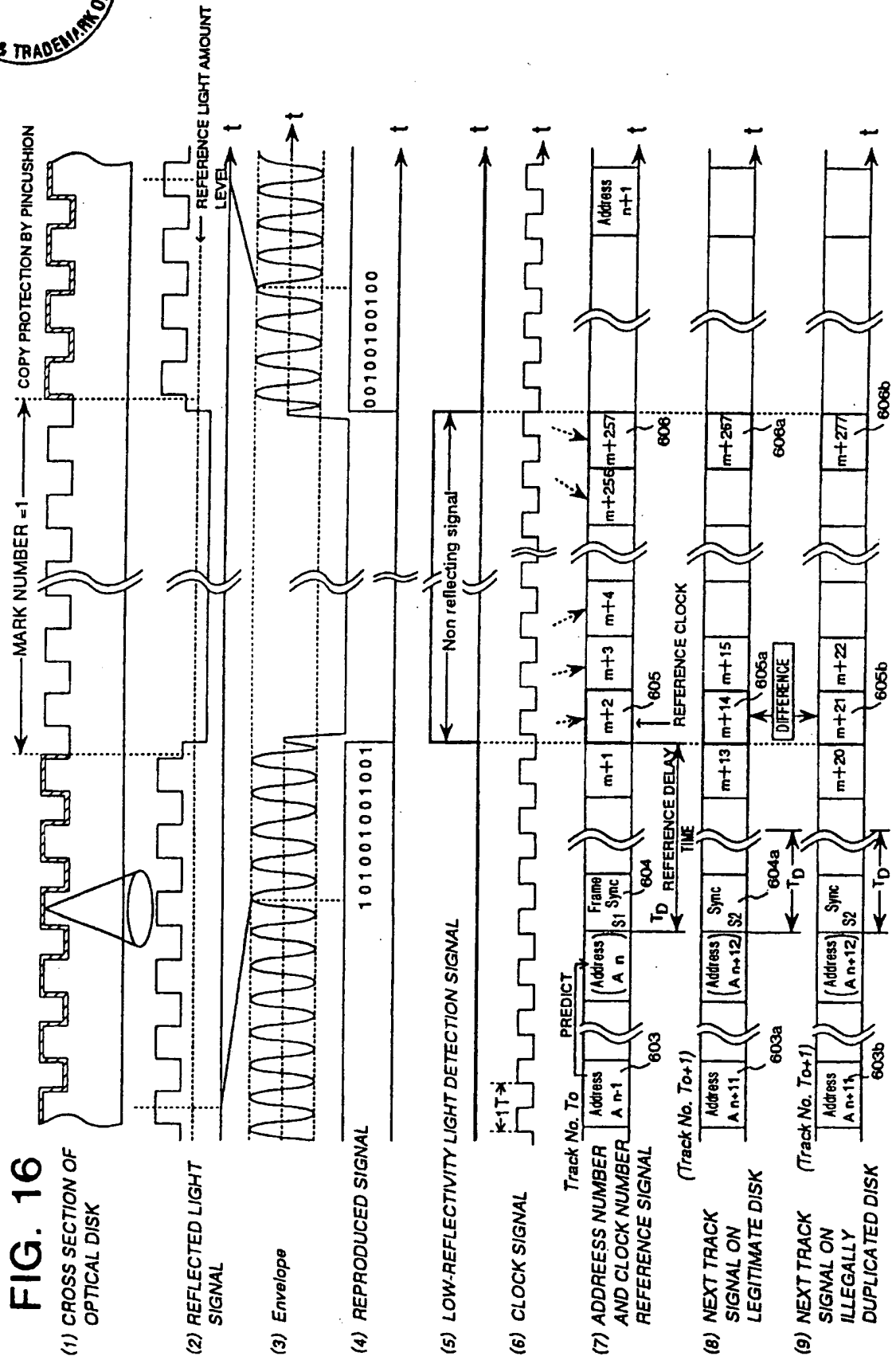


FIG. 16



LEGITIMATE DISK

LOW-REFLECTIVITY PORTION ADDRESS TABLE

609

MARK NO.	START POSITION			END POSITION		
	ADDRESS	Sync No	CLOCK NUMBER	ADDRDSS	Sync No	CLOCK NUMBER
1	A n	S_1	m+2	n		m+257
1	A n+12	S_2	m+14	n+12		m+267
1	A n+23		m+25	n+23		m+300
:	:		:	:		:
2	A n+1		m+15	n+1		m+160
2	A n+13		m+85	n+13		m+250
2	A n+24		m+68	n+24		m+210
10	A n+9					
10						

PLANNING

ILLEGALLY DUPLICATED DISK

LOW-REFLECTIVITY PORTION ADDRESS TABLE

609x

MARK NO.	START POSITION			END POSITION		
	ADDRDSS	Sync No	CLOCK NUMBER	ADDRDSS	Sync No	CLOCK NUMBER
1	n	S_1	m+2	n		m+257
1	n+12	S_2	m+21	n+12		m+277
1	n+22		m+4	n+22		m+230
:	:		:	:		:
2	n+1		m+36	n+1		m+190
2	n+13		m+120	n+13		m+281
2	n+25			n+25		
10	n+9					
10						

FIG. 17

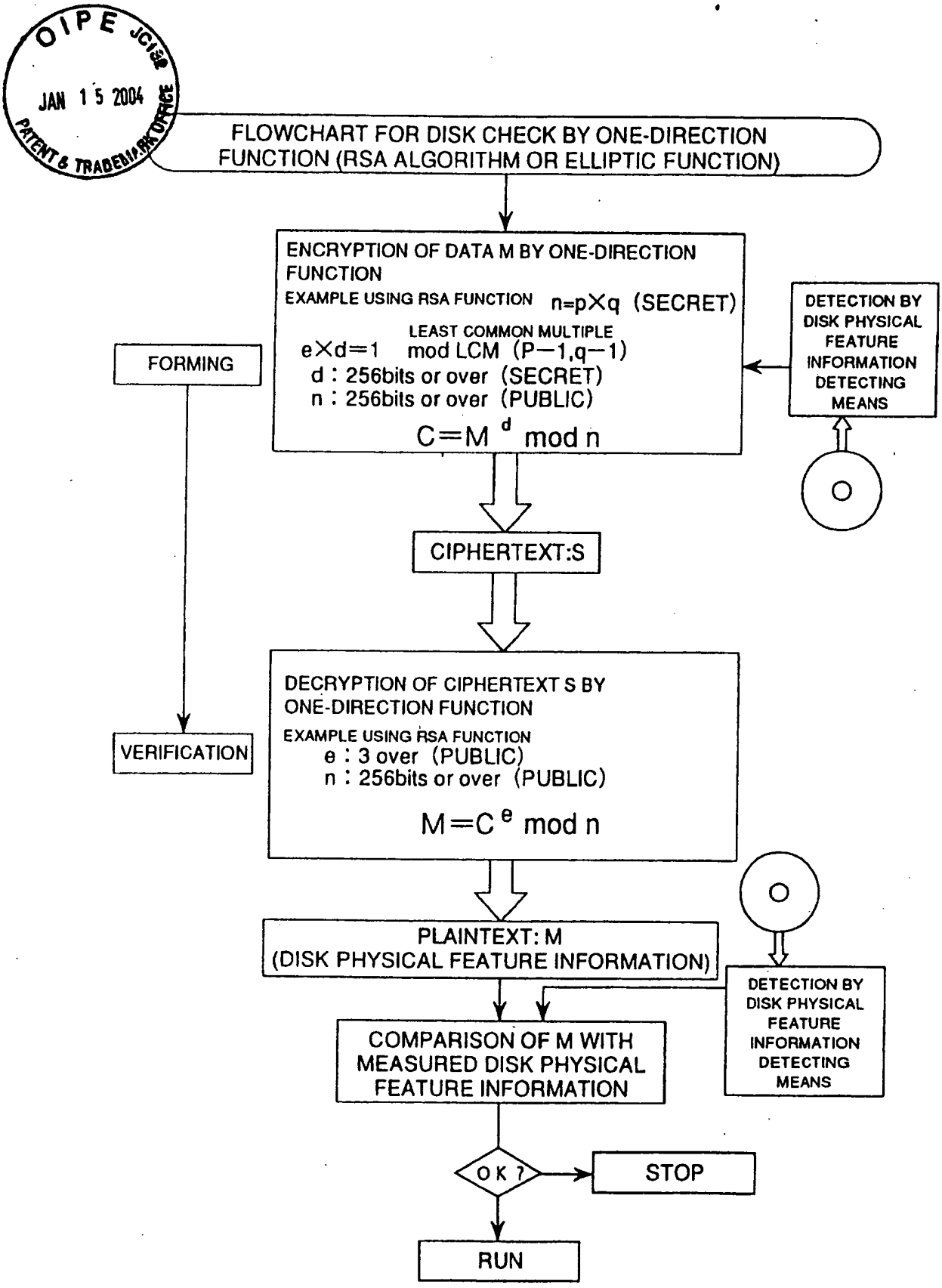


FIG. 18

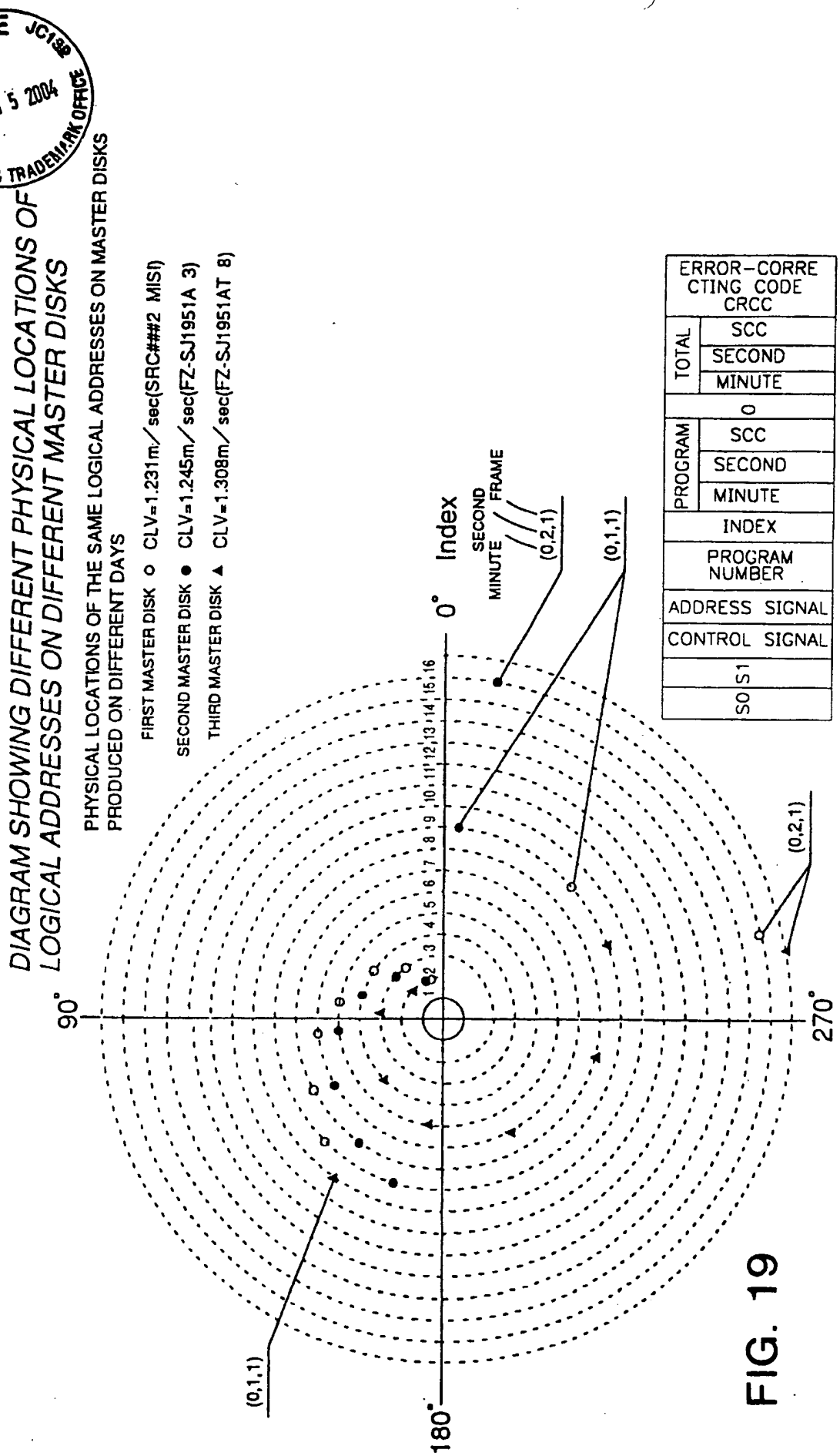


FIG. 19

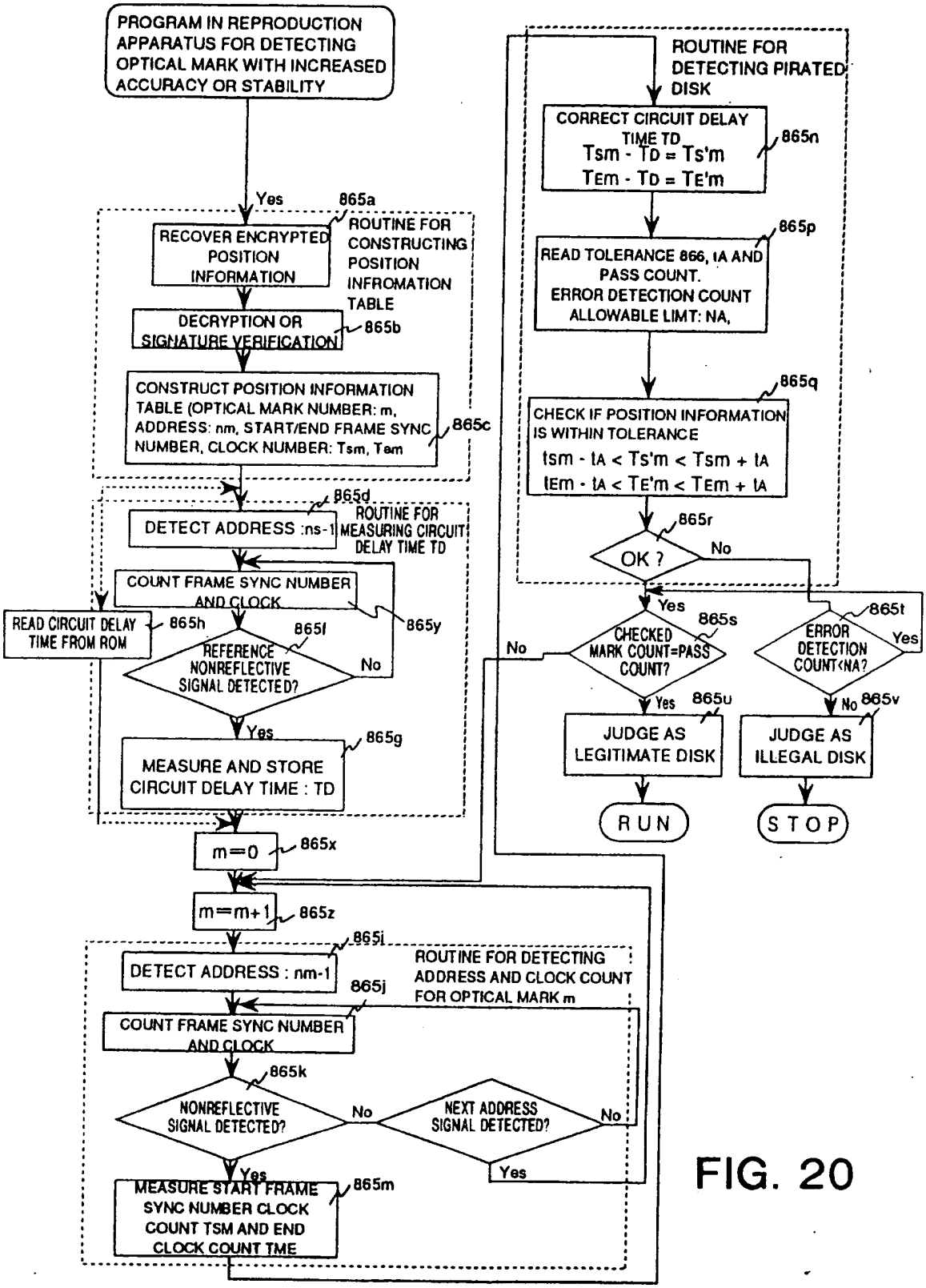


FIG. 20

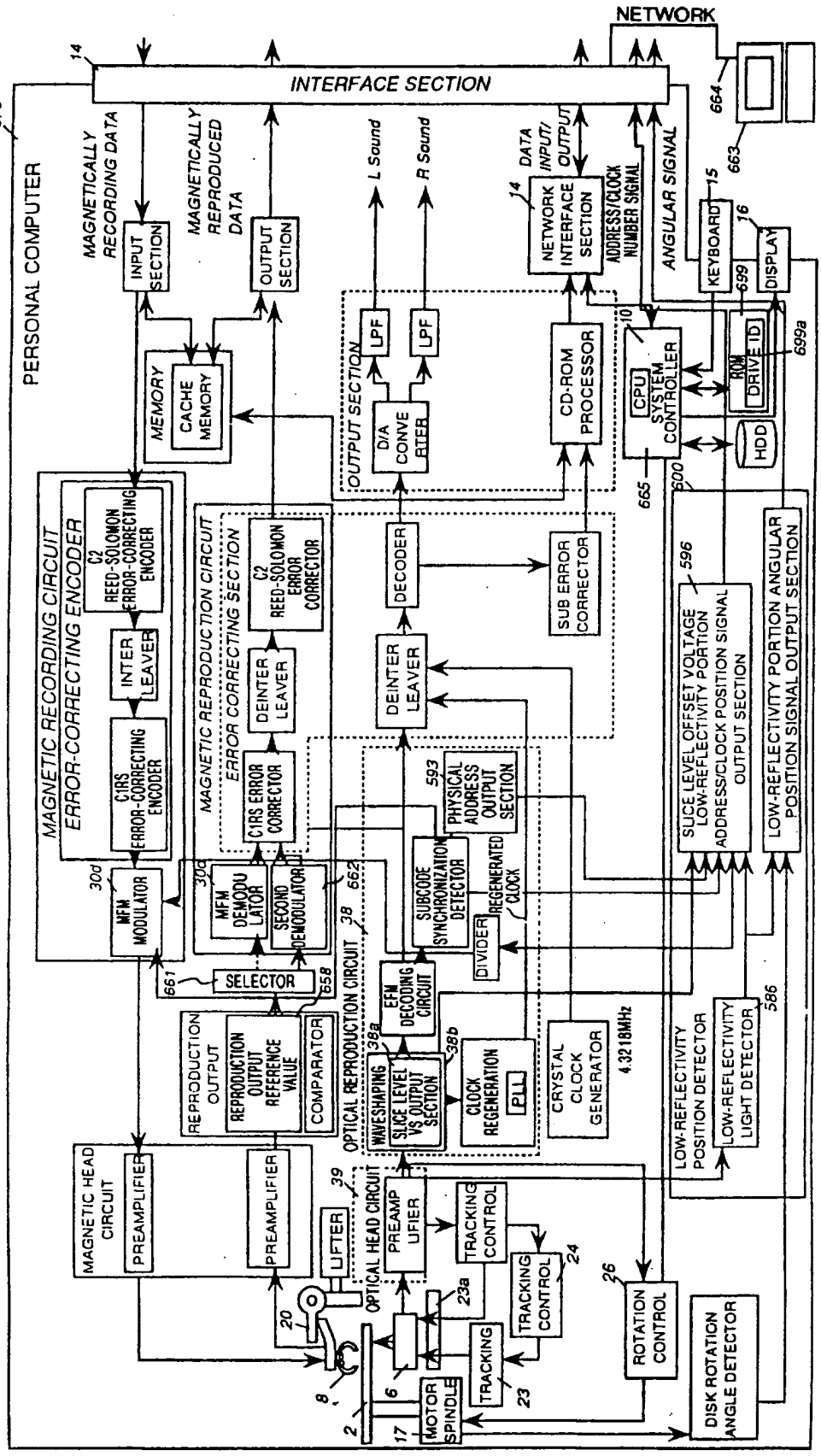


FIG. 21

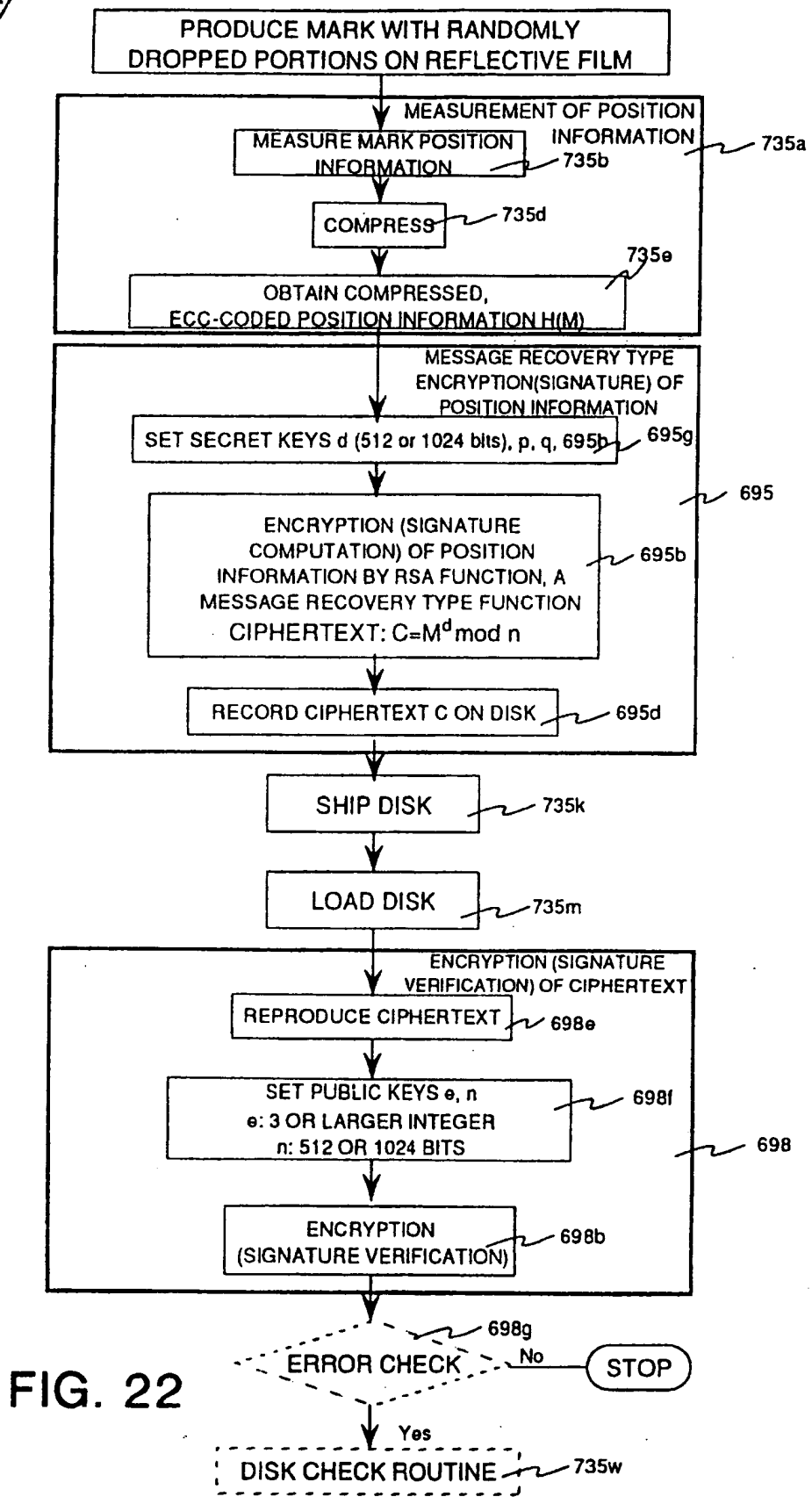


FIG. 22

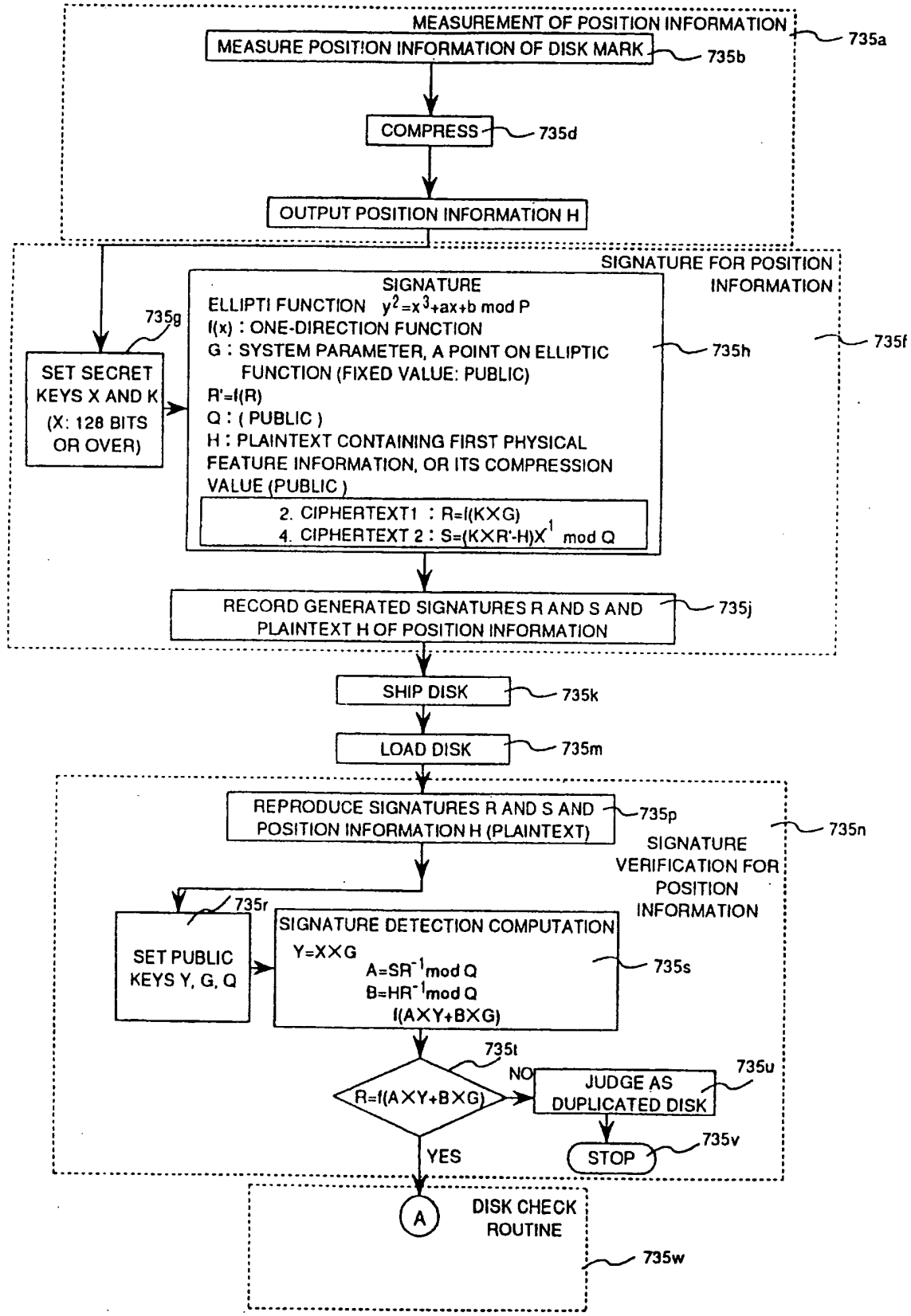


FIG. 23

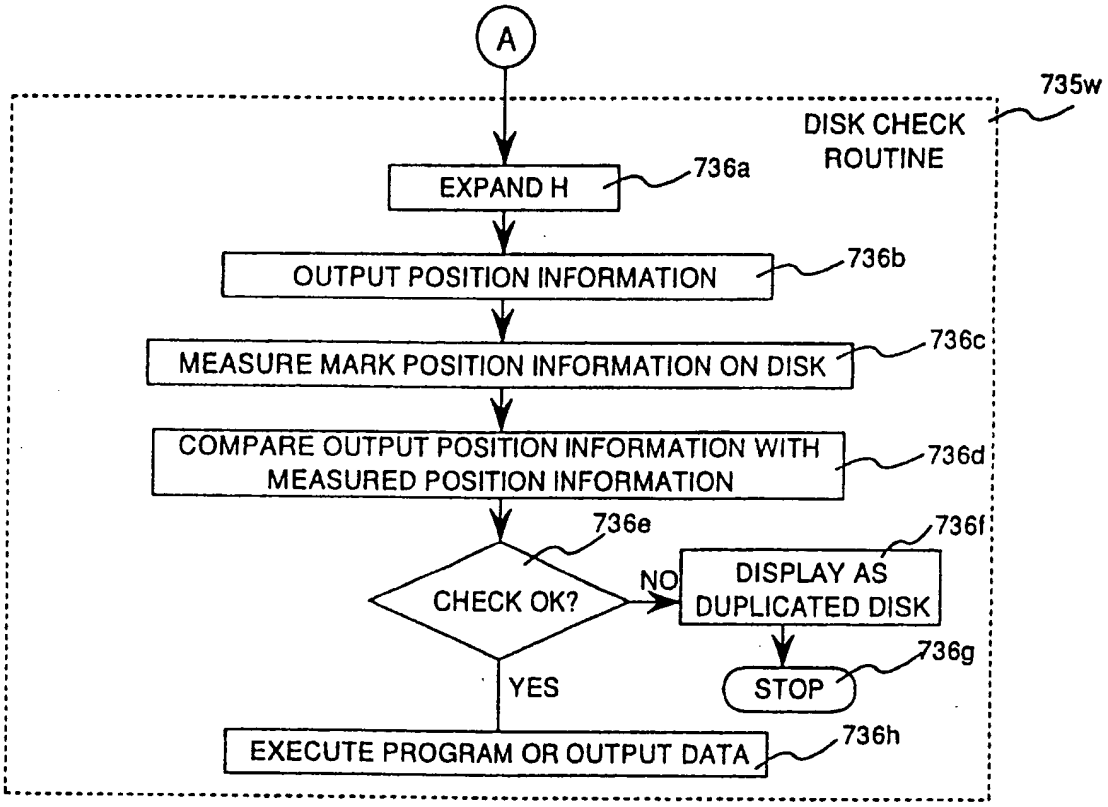


FIG. 24

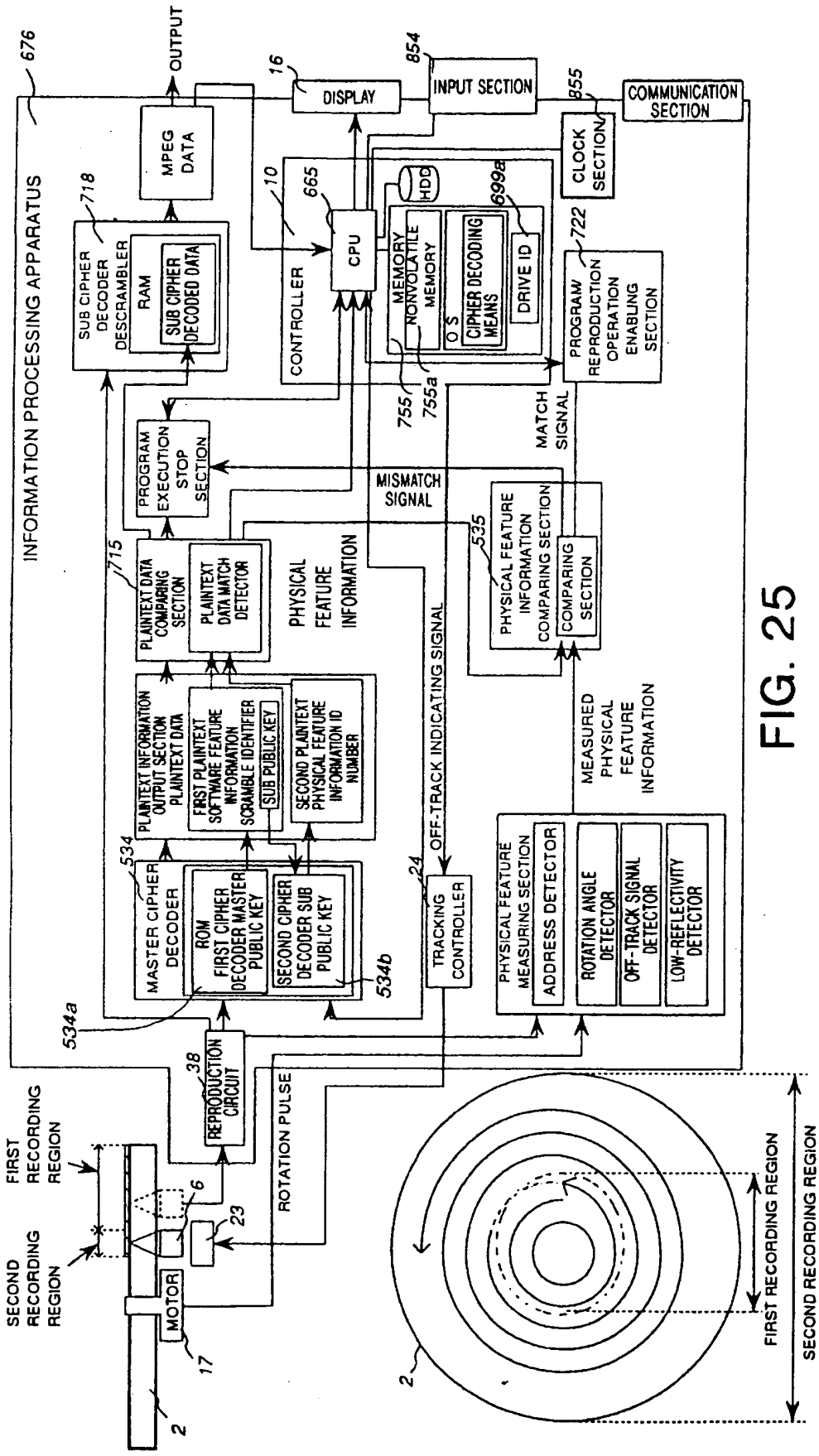


FIG. 25

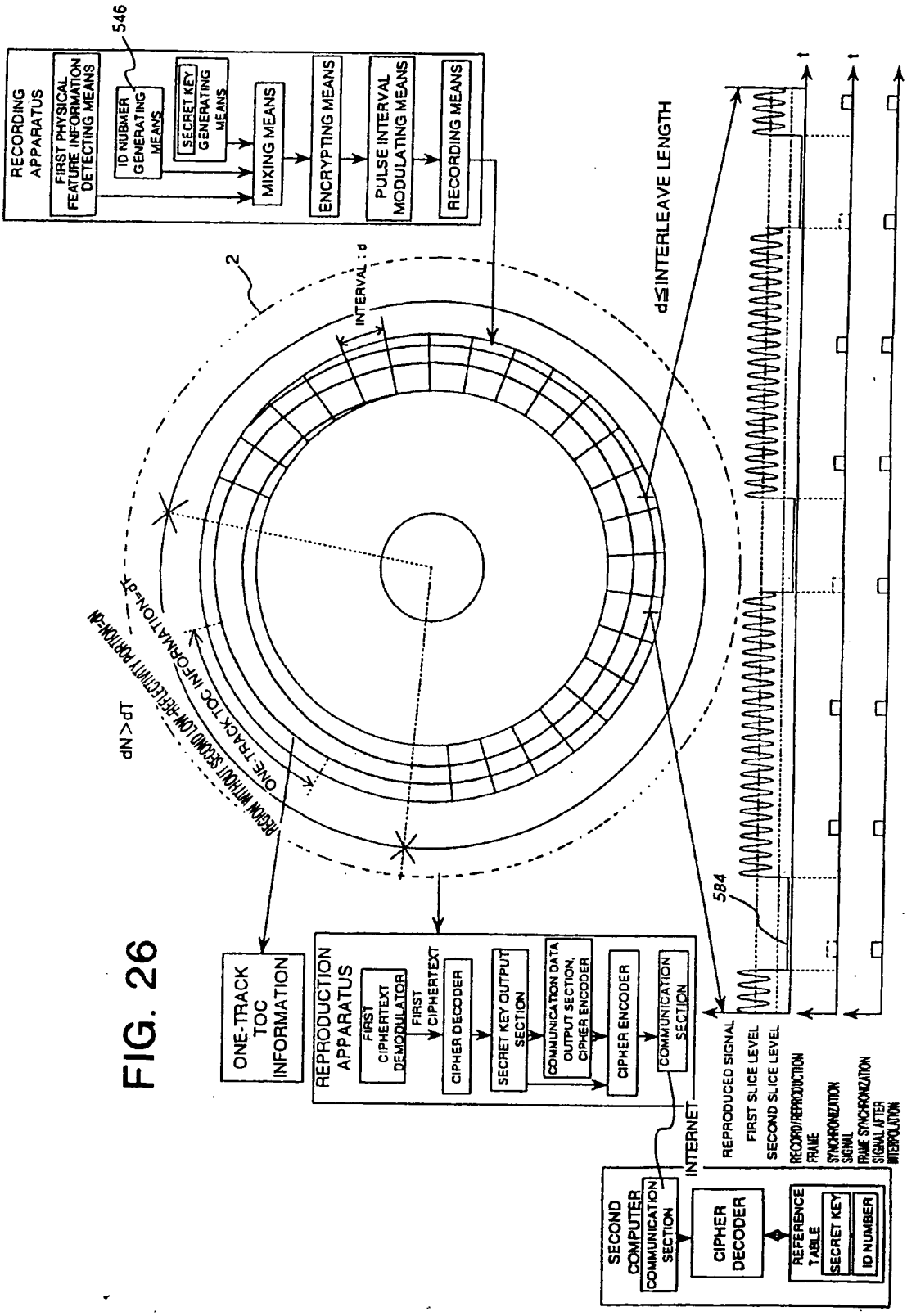


FIG. 26

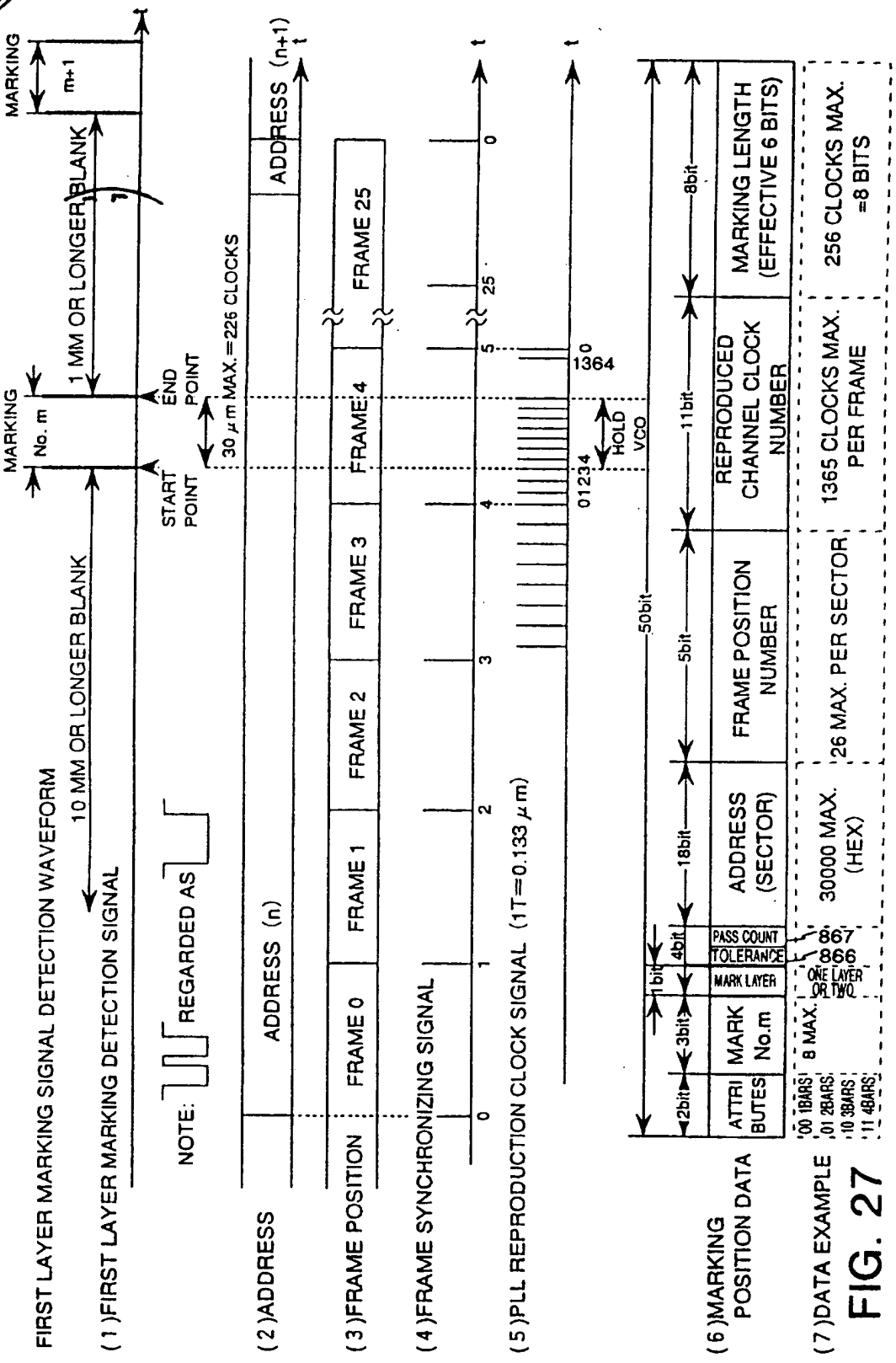


FIG. 27

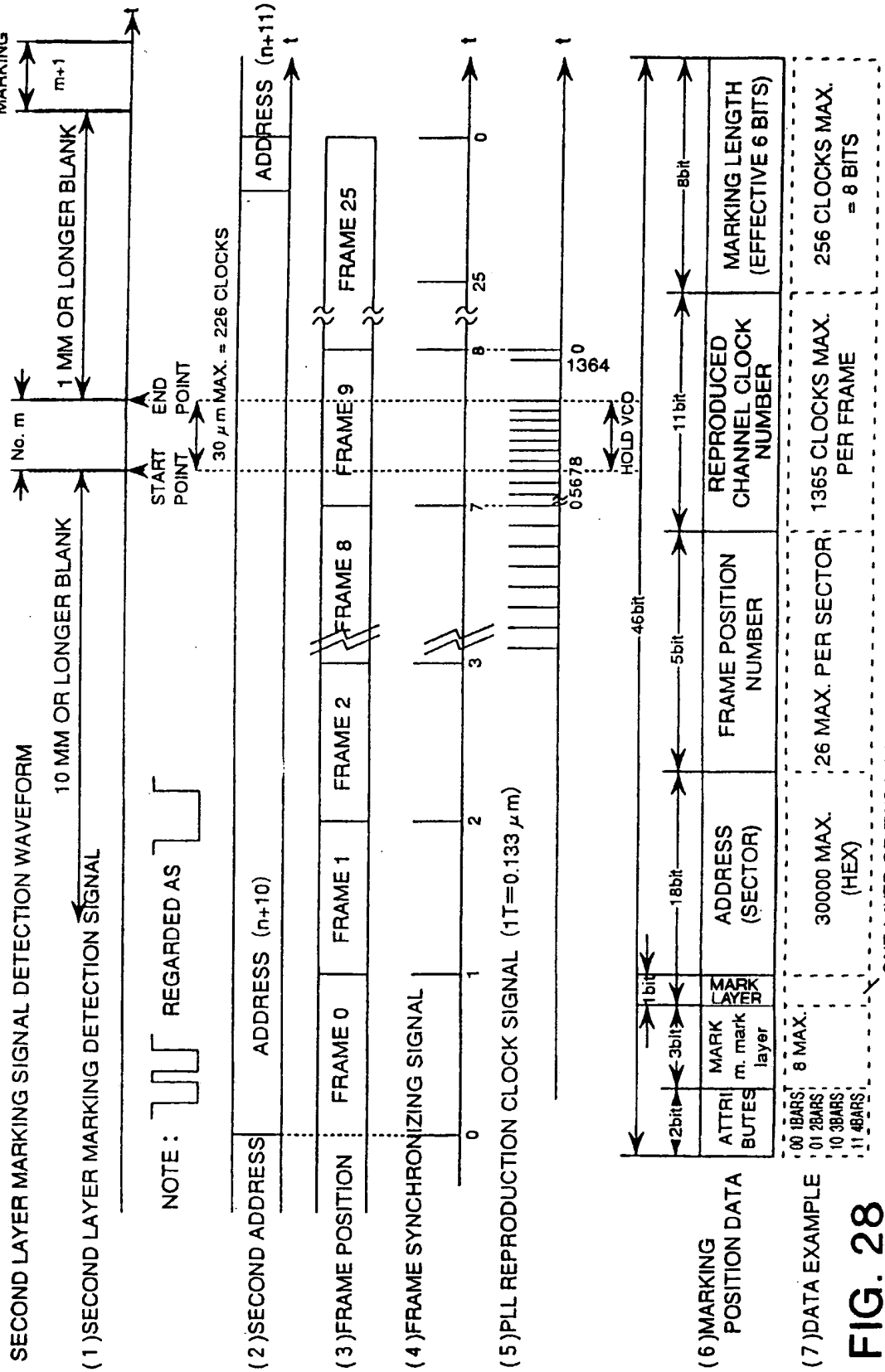


FIG. 28

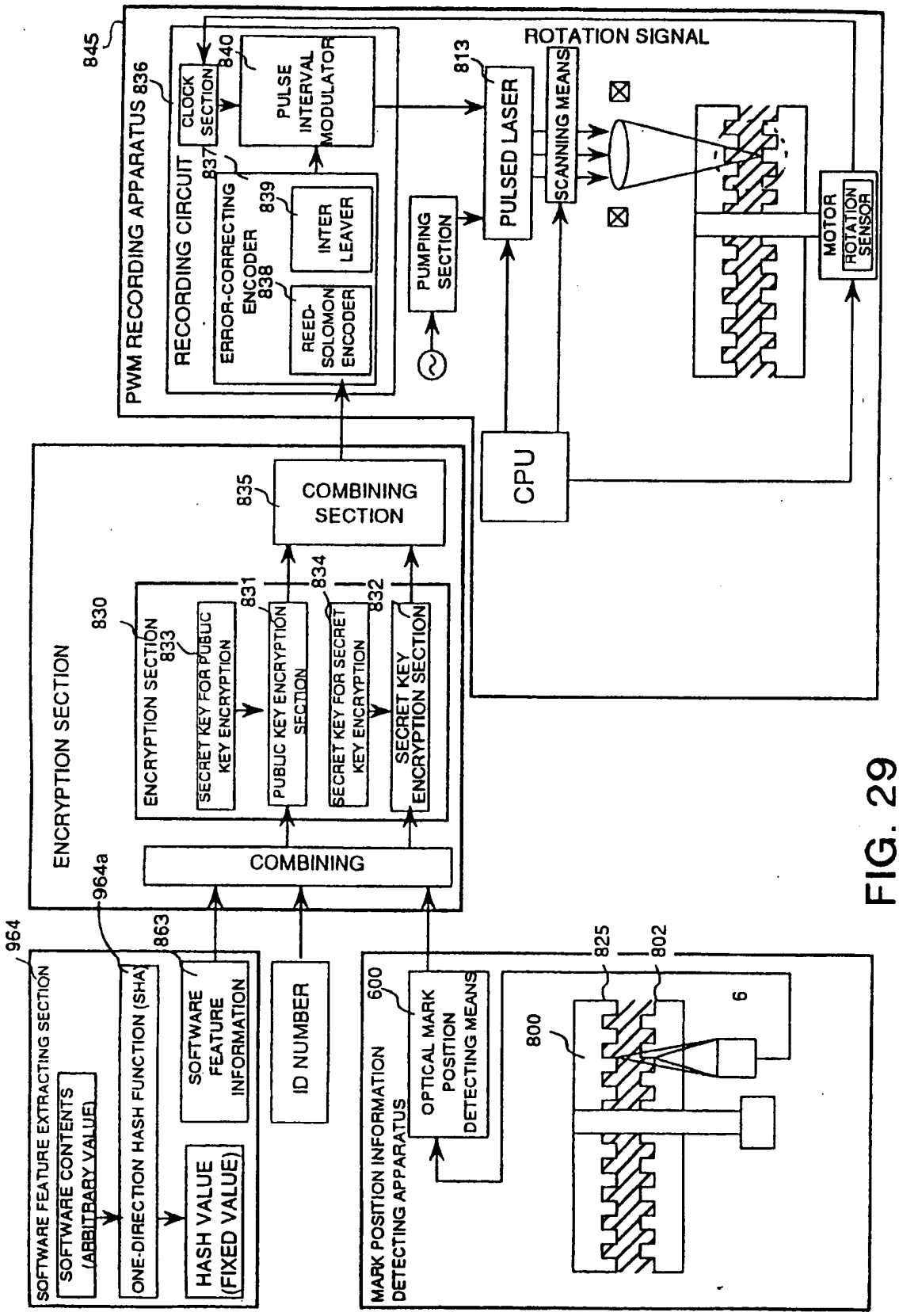


FIG. 29

BARCODE LINE WIDTH VERSUS RECORDING DENSITY

842

LINE WIDTH	PERIOD	RECORDING DENSITY	MAXIMUM RECORDING CAPACITY	LENGTH OF 1 KBITS
W (μm)	T (μm)	μm/bit	ONE RING	mm
1 μm	2 μm	2.55 μm	56Kbit	2.5mm
3 μm	6 μm	7.5 μm	28.2Kbit	5mm
5 μm	10 μm	12.5 μm	11.2Kbit	12.5mm
10 μm	20 μm	25 μm	5.6Kbit	25mm
20 μm	40 μm	50 μm	2.82Kbit	50mm

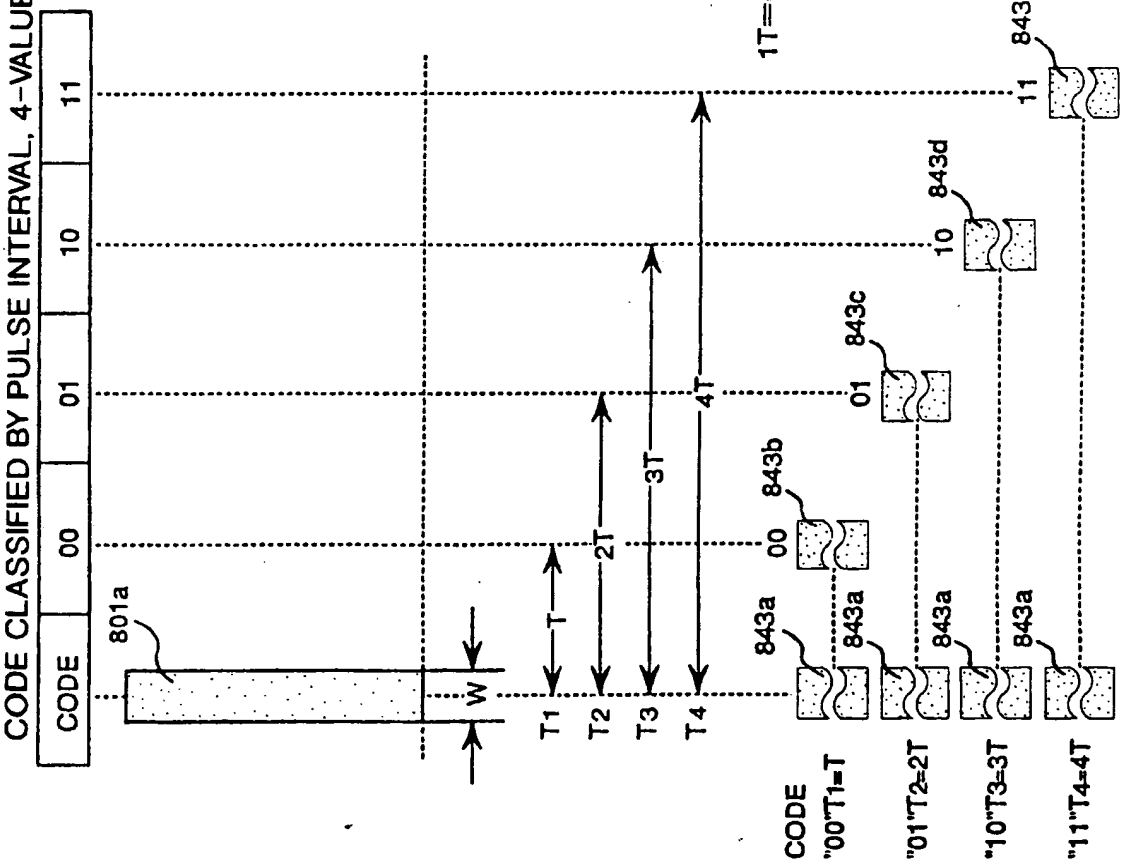


FIG. 30

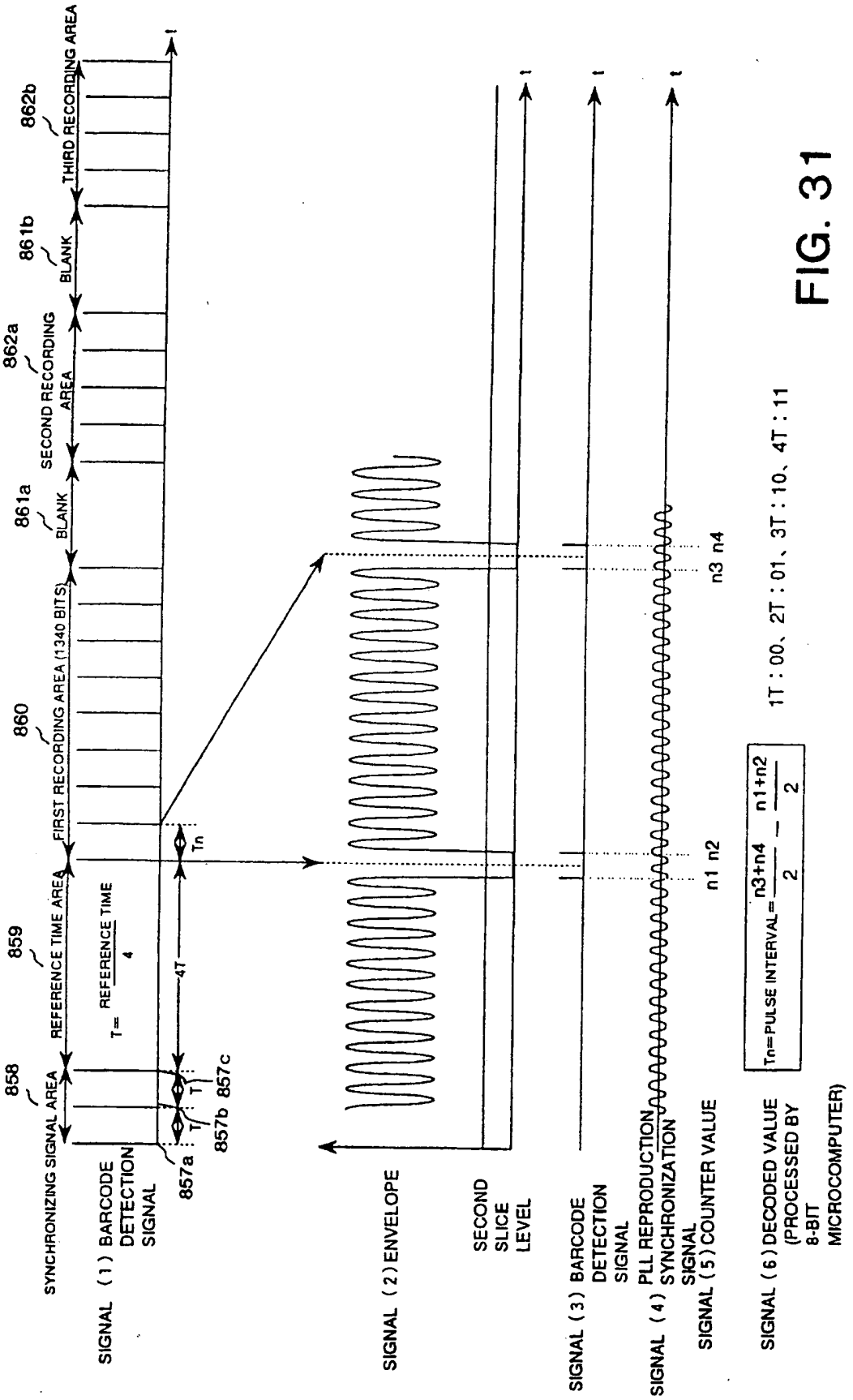


FIG. 31

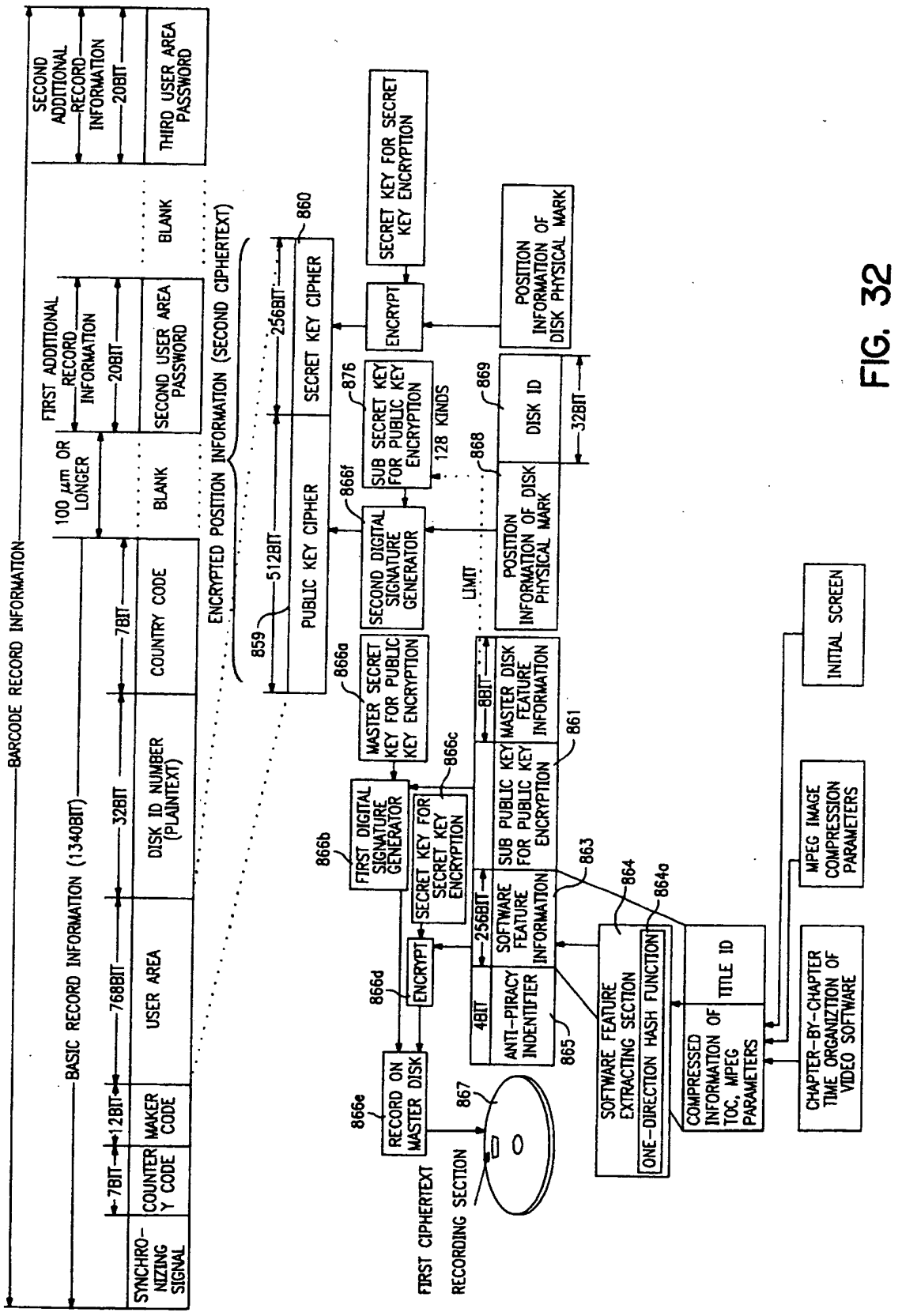


FIG. 32

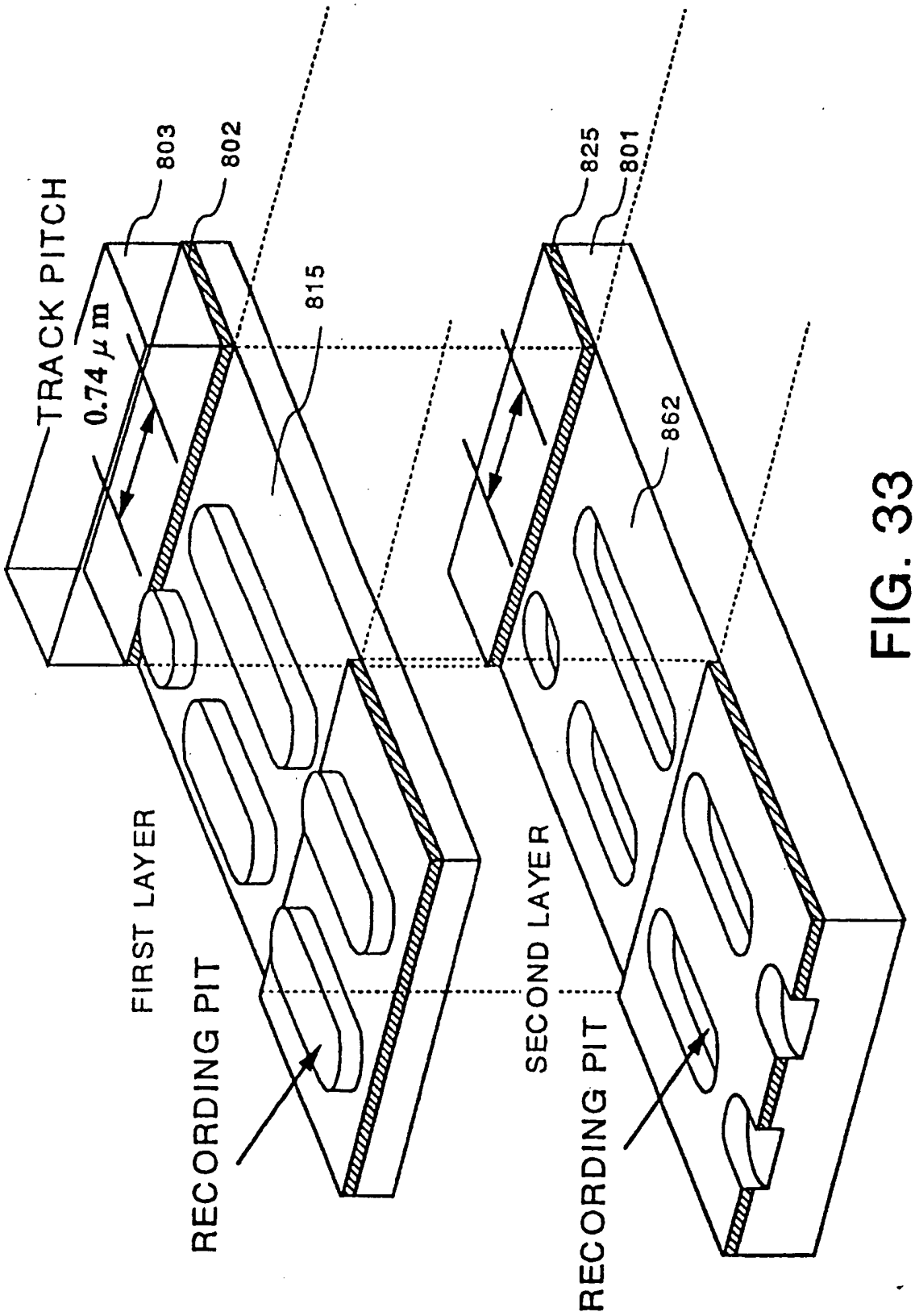
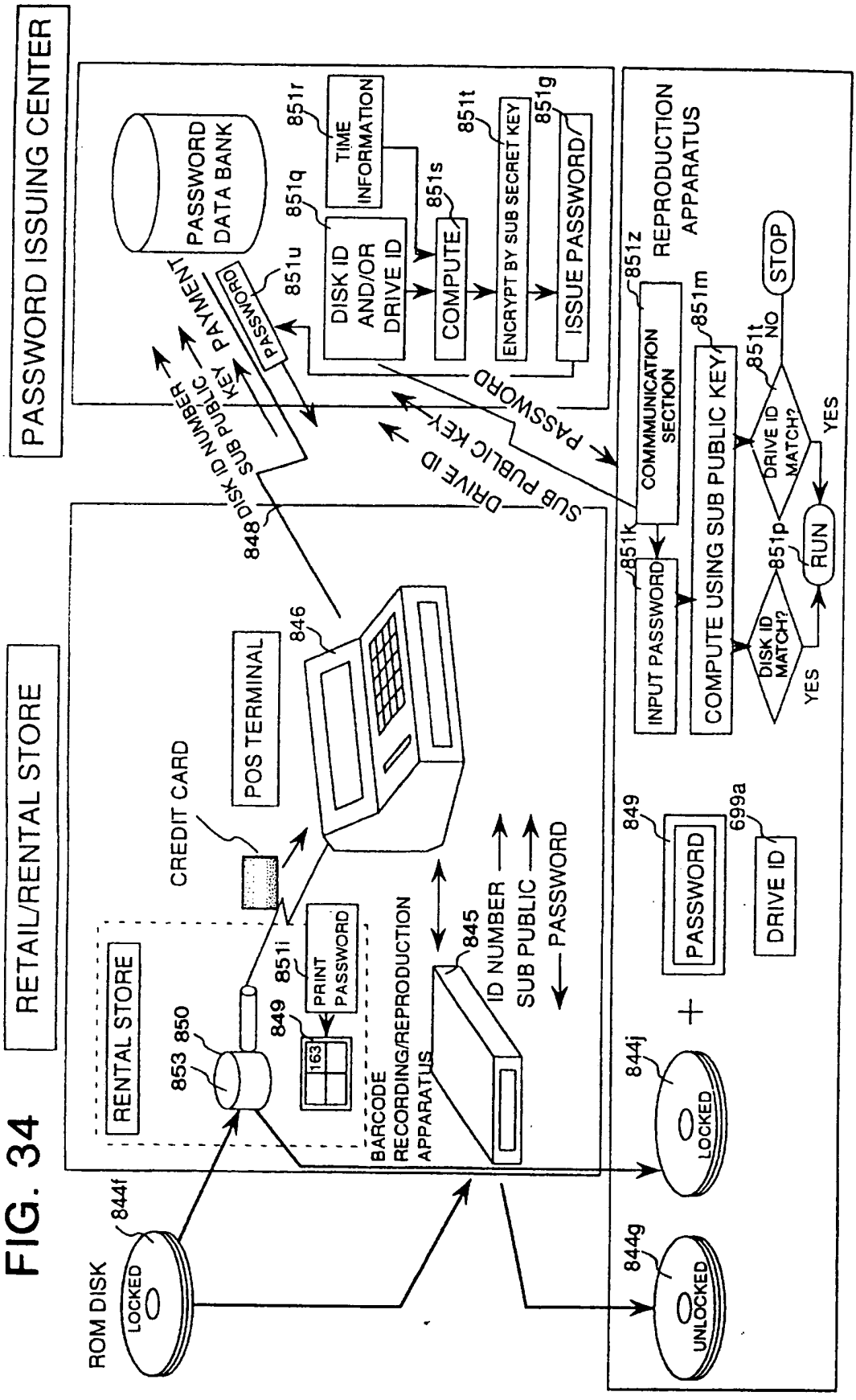


FIG. 33

FIG. 34



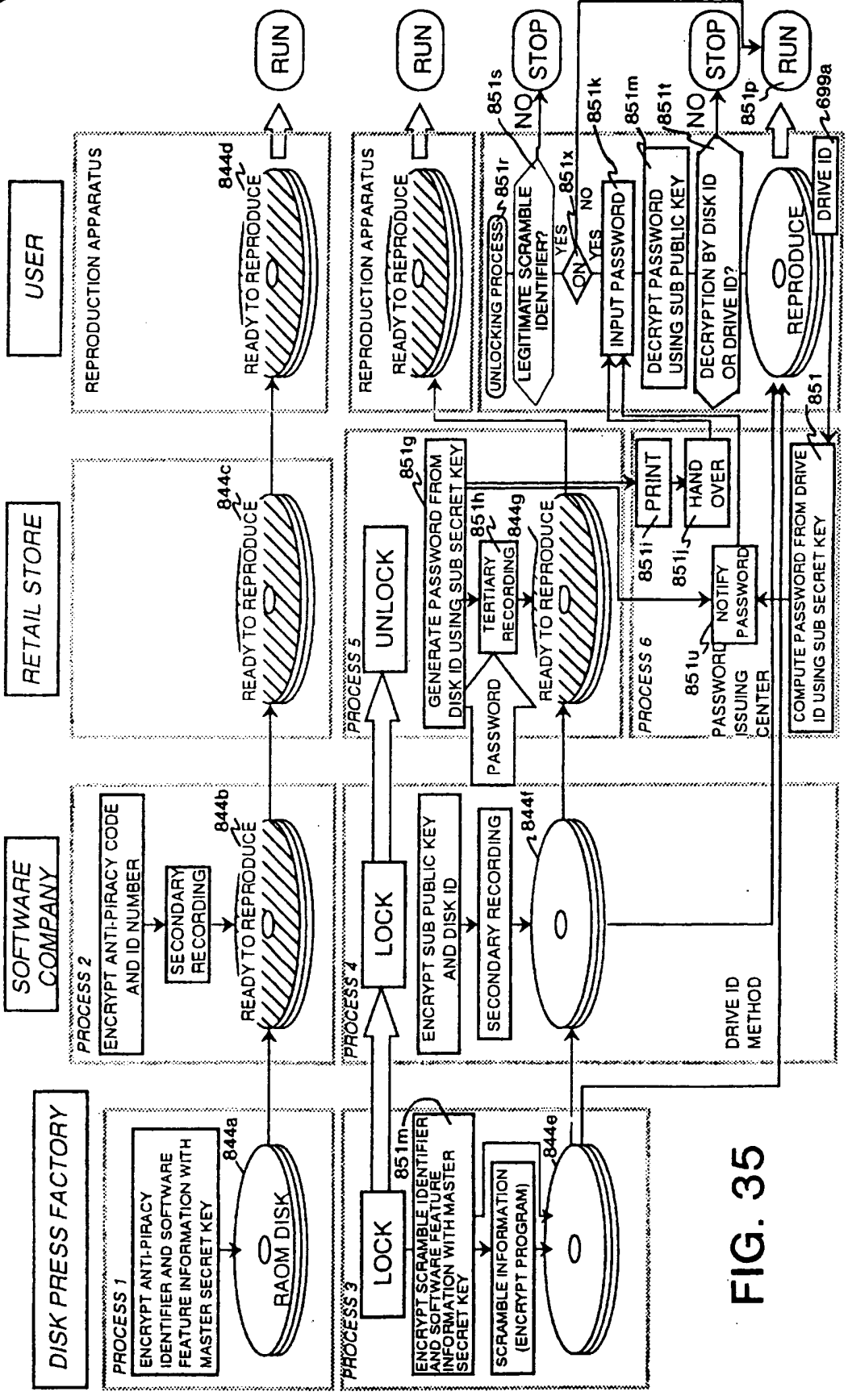


FIG. 35

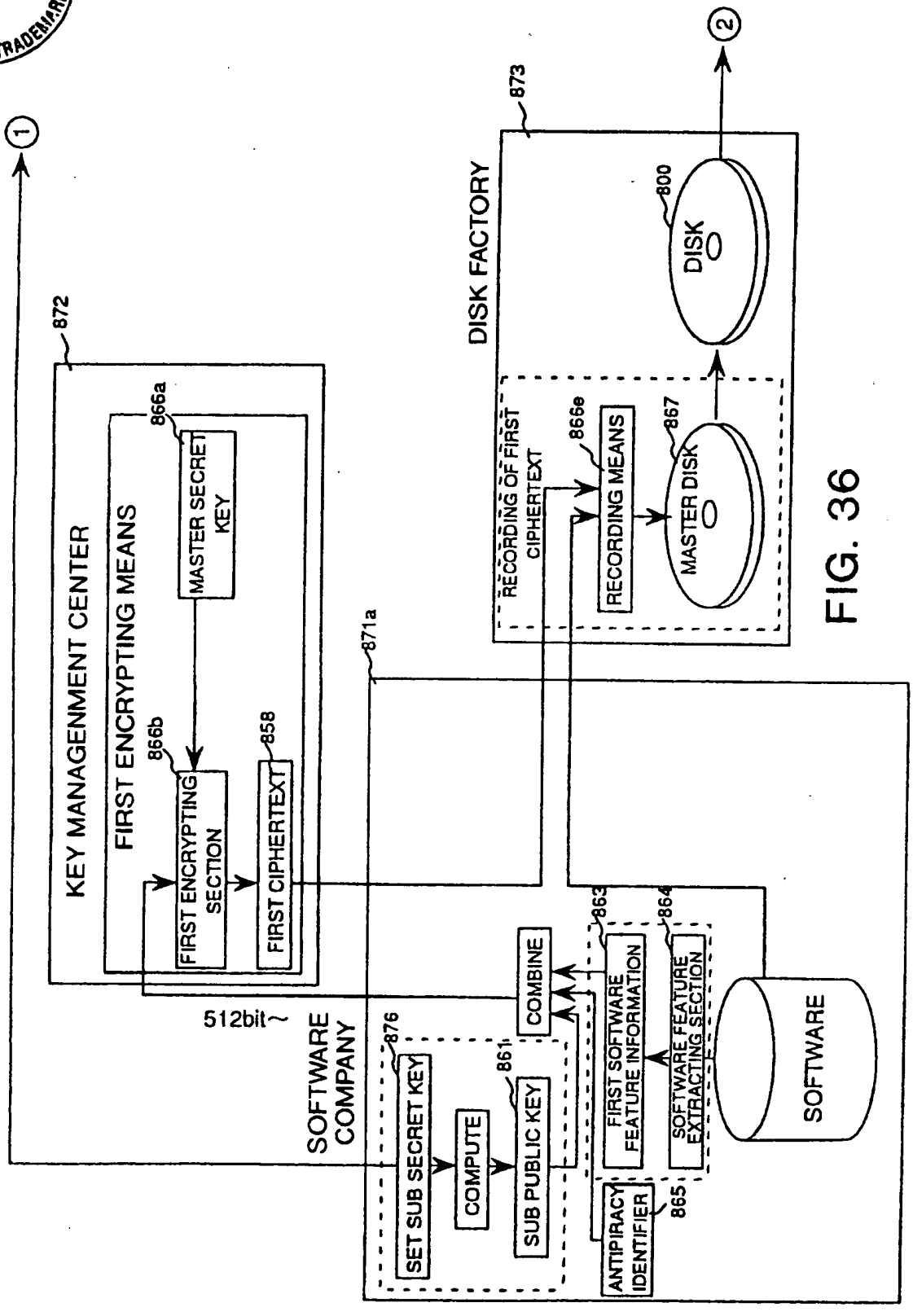


FIG. 36

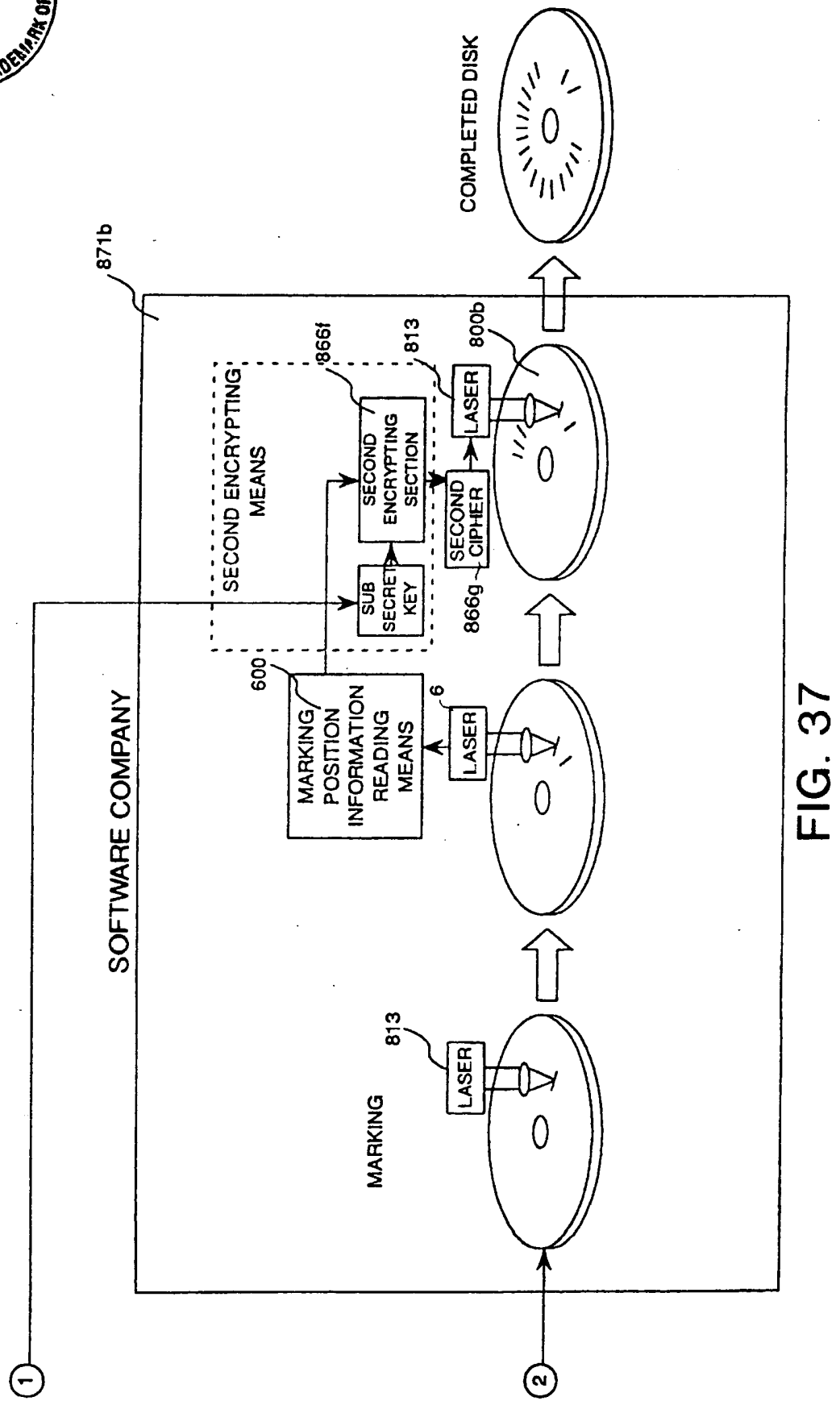


FIG. 37

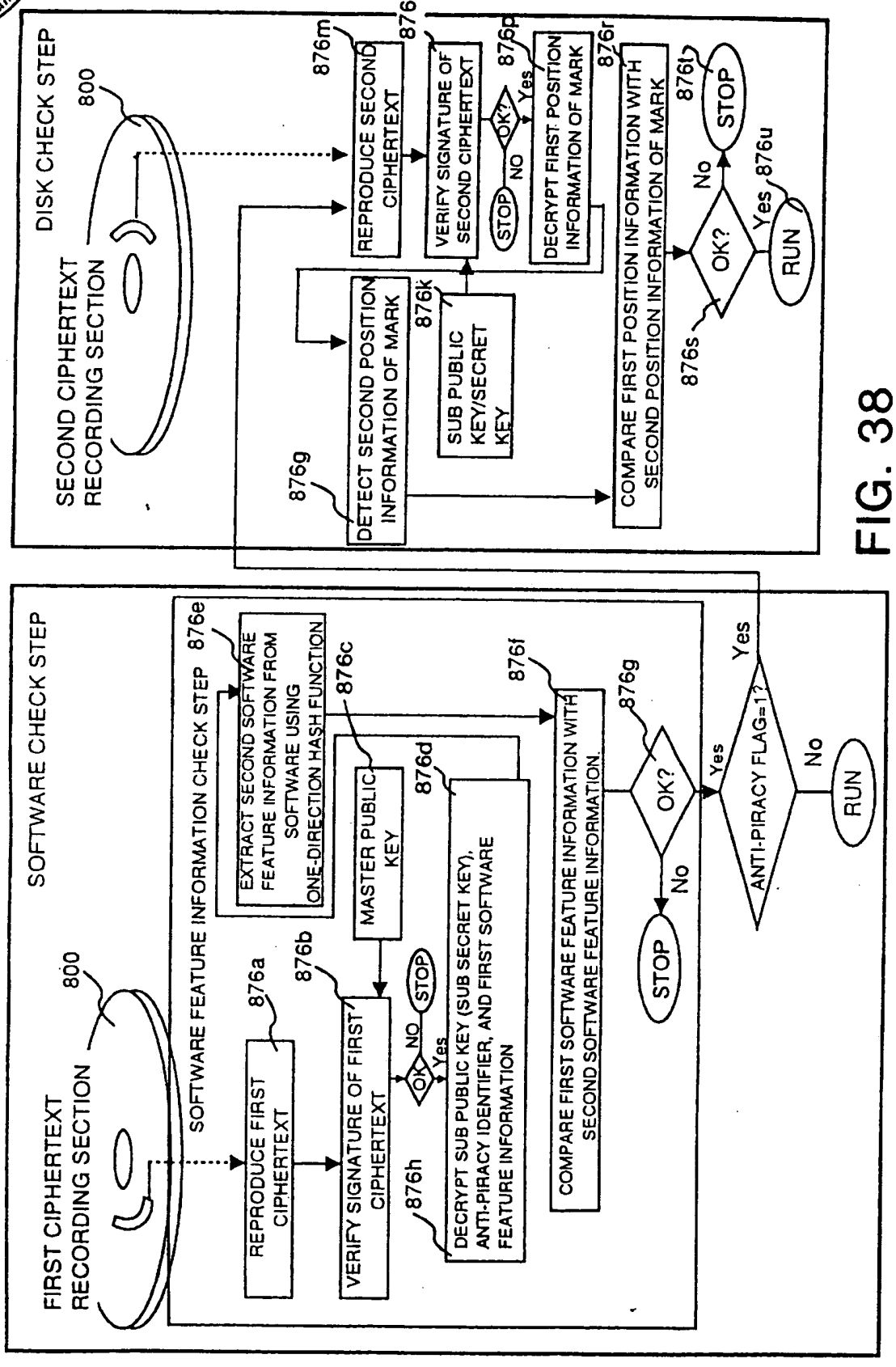


FIG. 38

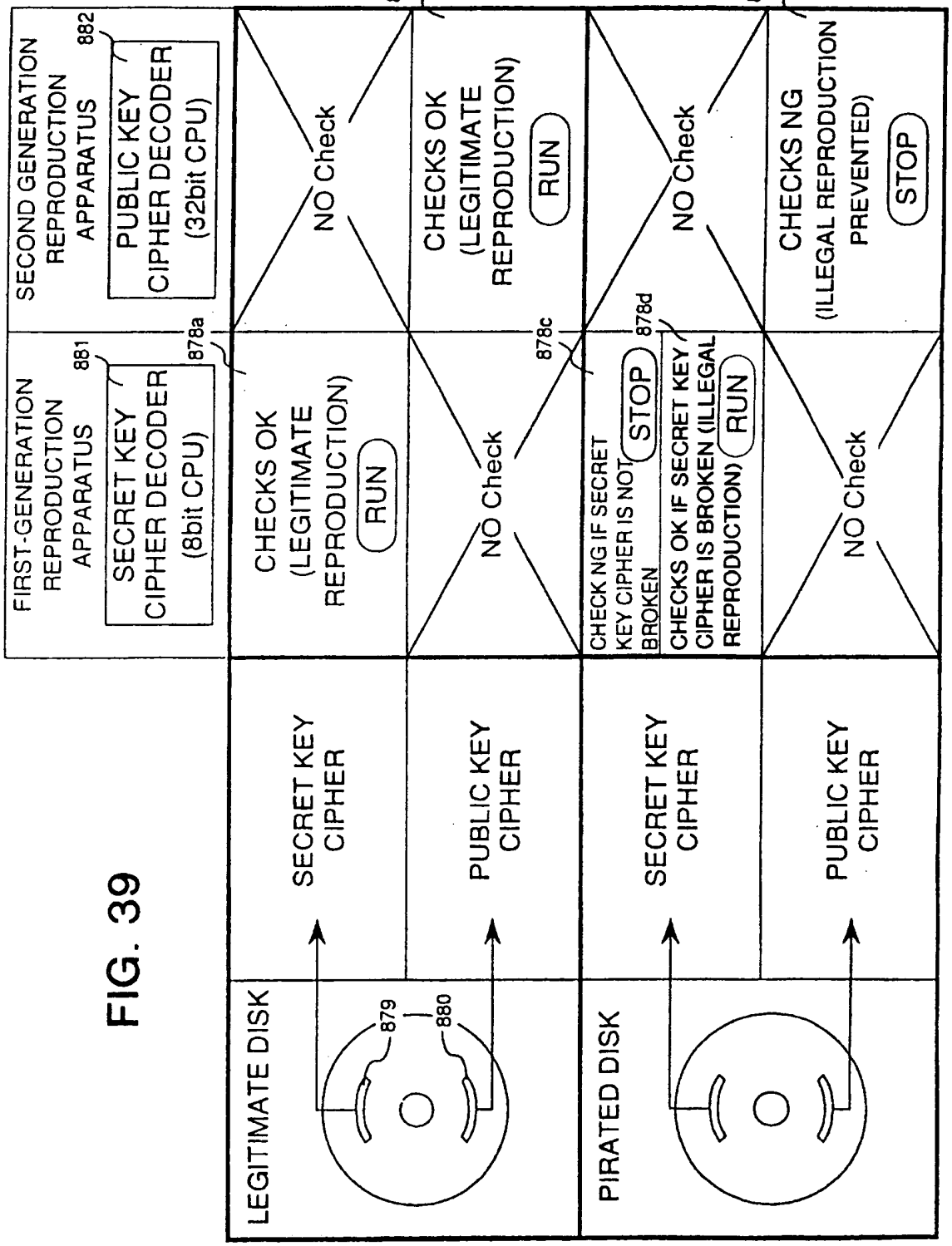


FIG. 39

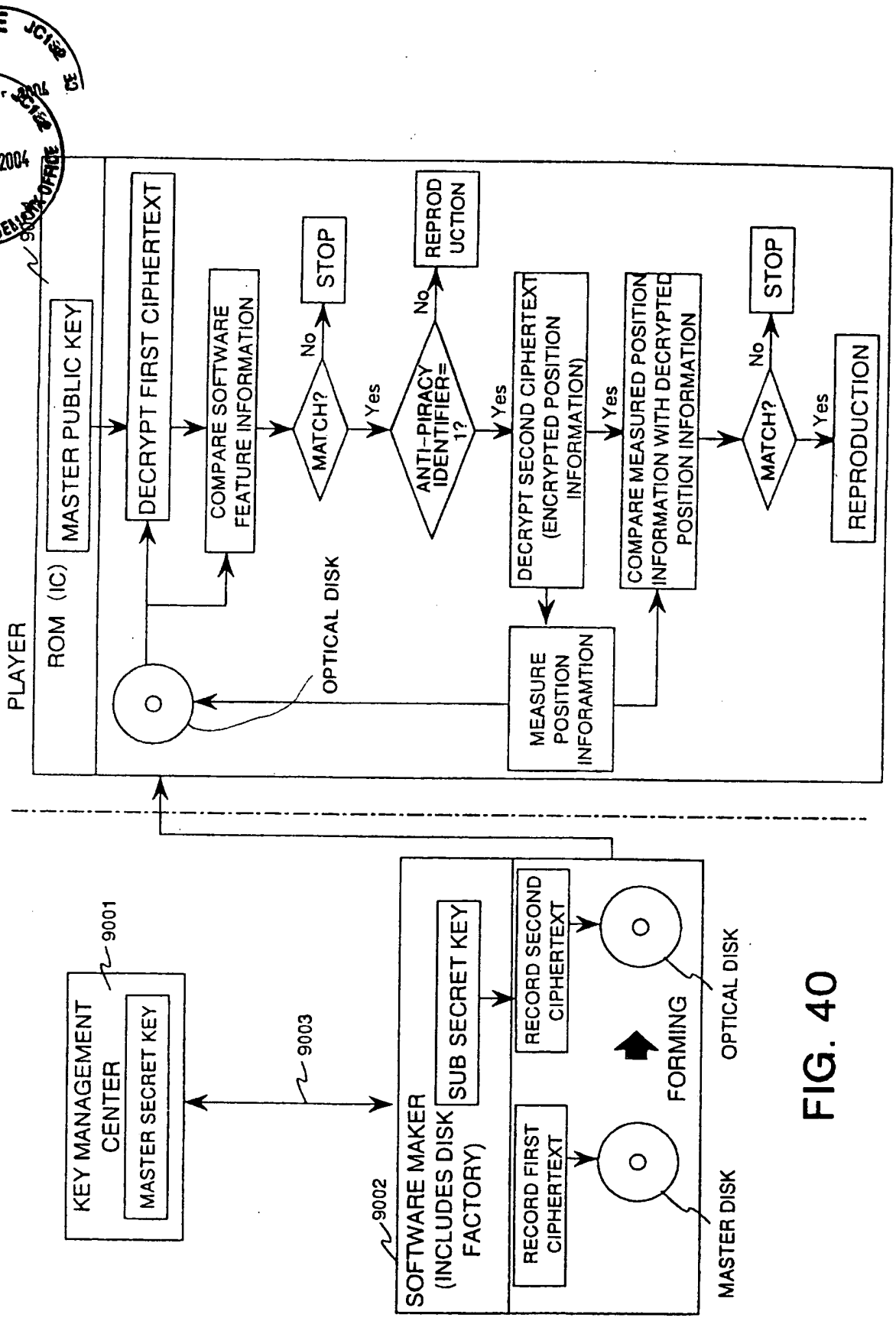


FIG. 40

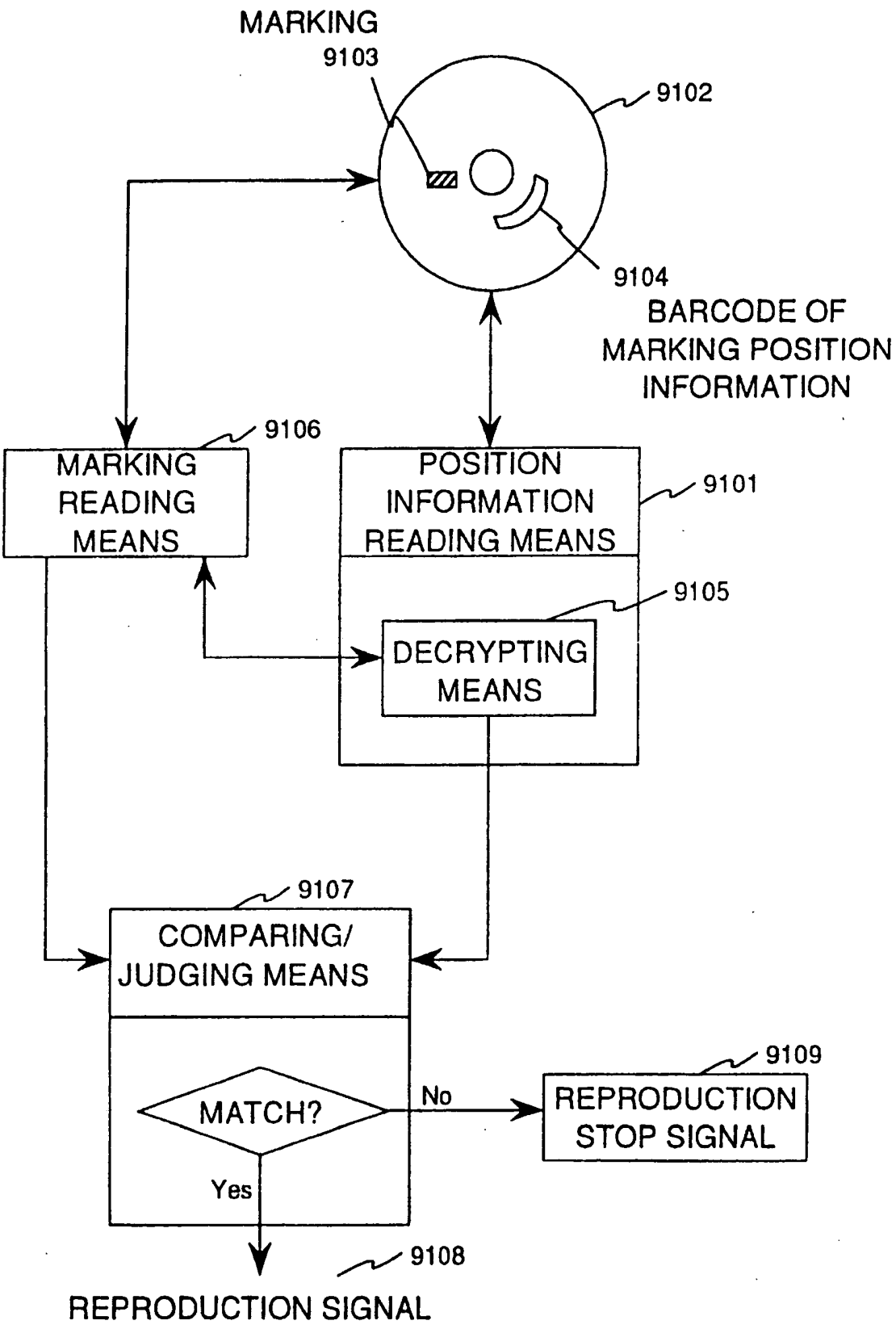

MARKING
9103
9102
9104
BARCODE OF
MARKING POSITION
INFORMATION
9106
MARKING
READING
MEANS
POSITION
INFORMATION
READING MEANS
9101
9105
DECRYPTING
MEANS
9107
COMPARING/
JUDGING MEANS
MATCH?
No
9109
REPRODUCTION
STOP SIGNAL
Yes
9108
REPRODUCTION SIGNAL

FIG. 41

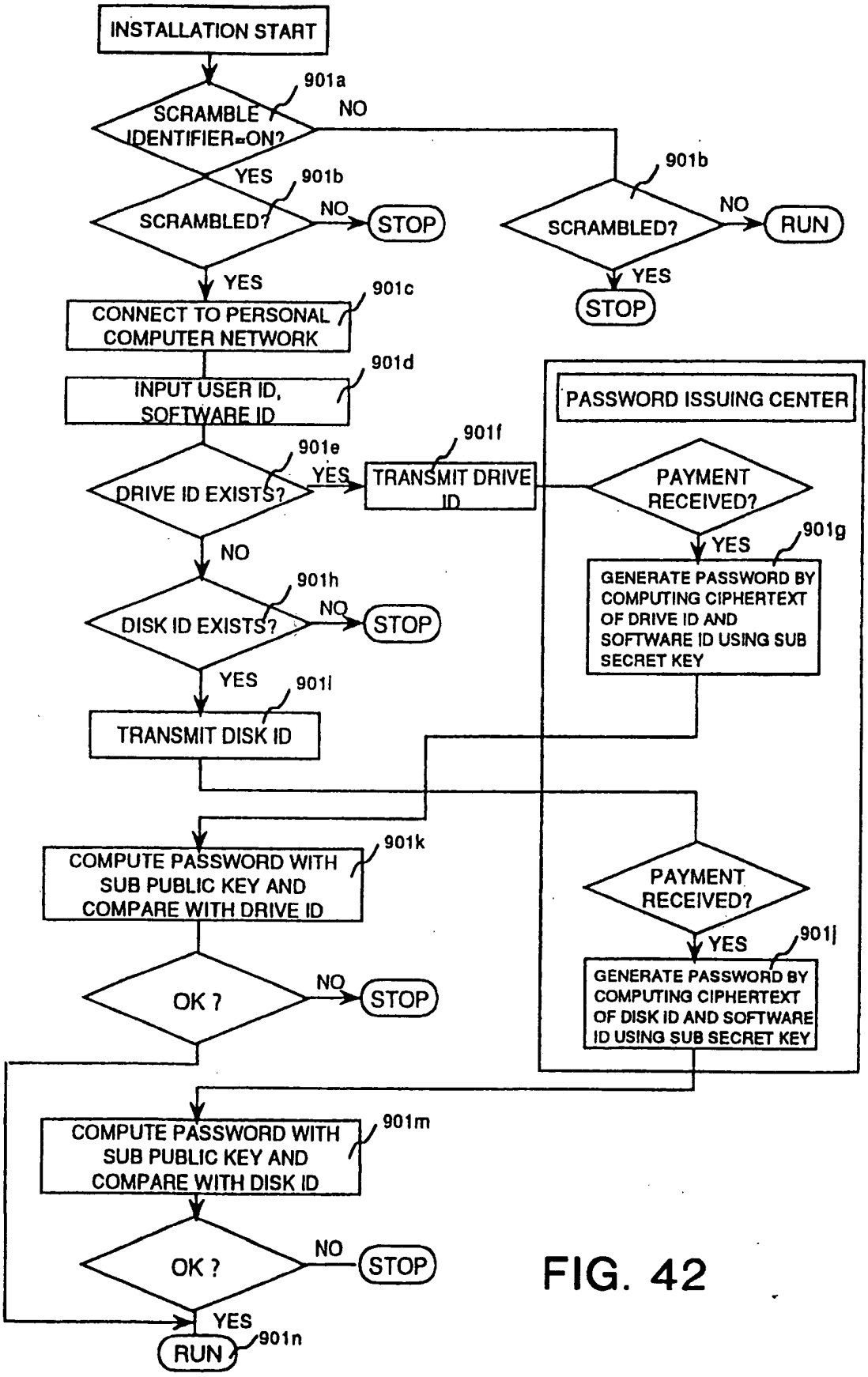

INSTALLATION START
901a
SCRAMBLE IDENTIFIER=ON?
NO
YES
901b
SCRAMBLED?
NO
STOP
YES
901c
CONNECT TO PERSONAL COMPUTER NETWORK
901d
INPUT USER ID, SOFTWARE ID
901e
DRIVE ID EXISTS?
YES
901f
TRANSMIT DRIVE ID
NO
901h
DISK ID EXISTS?
NO
STOP
YES
901i
TRANSMIT DISK ID
901k
COMPUTE PASSWORD WITH SUB PUBLIC KEY AND COMPARE WITH DRIVE ID
OK ?
NO
STOP
901m
COMPUTE PASSWORD WITH SUB PUBLIC KEY AND COMPARE WITH DISK ID
OK ?
NO
STOP
YES
RUN
901n
901b
SCRAMBLED?
NO
RUN
YES
STOP
PASSWORD ISSUING CENTER
PAYMENT RECEIVED?
YES
901g
GENERATE PASSWORD BY COMPUTING CIPHERTEXT OF DRIVE ID AND SOFTWARE ID USING SUB SECRET KEY
PAYMENT RECEIVED?
YES
901j
GENERATE PASSWORD BY COMPUTING CIPHERTEXT OF DISK ID AND SOFTWARE ID USING SUB SECRET KEY

FIG. 42